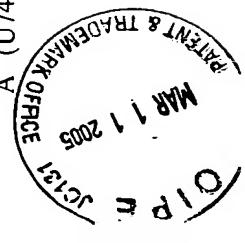


| Analysis Name | Probe Set Name | Gene Name  | Change  | Change  | Change  | Change  | Change   | Change   | Change  |
|---------------|----------------|--|---------|---------|---------|---------|----------|----------|---------|
|               |                |  | p-value | p-value | p-value | p-value | p-value  | p-value  | p-value |
| A (U74A)      | 100581_at      | 1 cystatin B (Sftb) gene   | 1       | 1       | 1       | 1       | 1        | 0        | 0       |
| A (U74A)      | 103946_at      | 2 Pspip1 (proline-serine-threonine phosphayase-interacting protein 1)  | 1       | 1       | 1       | 1       | 0        | 0        | 0       |
| A (U74A)      | 104388_at      | 3 Scy9 (small inducible cytokine A9)   | 1       | 1       | 1       | 1       | 0        | 0        | 0       |
| A (U74A)      | 104407_at      | 4 Alcam (activated leukocyte cell adhesion molecule)   | 1       | 1       | 1       | 1       | 0        | 0        | 0       |
| A (U74A)      | 104761_at      | 5 2310046B19Rik RIKEN cDNA 2310046B19 gene   | 1       | 1       | 1       | 1       | 0        | 0        | 0       |
| A (U74A)      | 160202_at      | 6 5730403E06Rik (RIKEN cDNA 5730403E06 gene)   | 1       | 1       | 1       | 1       | 0        | 0        | 0       |
| A (U74A)      | 160406_at      | 7 cisk gene  | 1       | 1       | 1       | 1       | 0        | 0        | 0       |
| A (U74A)      | 160901_at      | 8 c-fos oncogene   | 1       | 1       | 1       | 1       | 0        | 0        | 0       |
| A (U74A)      | 98859_at       | 9 Acid phosphatase type 5 gene   | 1       | 1       | 1       | 1       | 0        | 0        | 0       |
| A (U74A)      | 99957_at       | 10 Mmp9 (matrix metalloproteinase 9)   | 1       | 1       | 1       | 1       | 0        | 0        | 0       |
| A (U74A)      | 103017_at      | 11 Tm7sf1 (transmembrane 7 superfamily member 1, integral membrane protein)  | 1       | 1       | 1       | 1       | 0        | 0.000001 |         |
| A (U74C)      | 166517_f_at    | 12 Alcam (activated leukocyte cell adhesion molecule)  | 1       | 1       | 1       | 1       | 0        | 0.000001 |         |
| A (U74A)      | 94556_at       | 13 241004M09Rik (RIKEN cDNA 241004M09)   | 1       | 1       | 1       | 1       | 0        | 0.000001 |         |
| A (U74A)      | 96481_at       | 14 C80638 (AV251613 RIKEN full-length enriched, 0 day neonate head Mus musculus cDNA clone 4833432F11 3', mRNA sequence) | 1       | 1       | 1       | 1       | 0.000001 | 0        |         |
| A (U74A)      | 97302_at       | 15 1700126116Rik (NDI-S, gene with protein product, function known or inferred)  | 1       | 1       | 1       | 1       | 0.000001 | 0        |         |
| A (U74A)      | 100906_at      | 16 Itgb7 (integrin beta 7)   | 1       | 1       | 1       | 1       | 0.000001 | 0.000001 |         |
| A (U74A)      | 103210_at      | 17 Csf2rb2 (colony stimulating factor 2 receptor, beta 2)  | 1       | 1       | 1       | 1       | 0.000001 | 0.000001 |         |
| A (U74A)      | 103690_at      | 18 AW125574 (Williams-Beuren syndrome chromosome region 5 homolog)   | 1       | 1       | 1       | 1       | 0.000001 | 0.000001 |         |
| A (U74A)      | 160124_r_at    | 19 vacuolar adenosine triphosphatase subunit C mRNA  | 1       | 1       | 1       | 1       | 0.000001 | 0.000001 |         |
| A (U74C)      | 165770_at      | 20 A1851927 (expressed sequence A1851927)  | 1       | 1       | 1       | 1       | 0        | 0.000002 |         |
| A (U74A)      | 93037_i_at     | 21 lipocortin 1 gene, exon 13  | 1       | 1       | 1       | 1       | 0.000001 | 0.000001 |         |
| A (U74A)      | 96680_at       | 22 Dna jb9 (Dna j (Hsp40) homolog, chaperone)  | 1       | 1       | 1       | 1       | 0        | 0.000002 |         |
| A (U74A)      | 102348_at      | 23 pale ear (Hermannsky-Pudlak syndrome 1 homolog)   | 1       | 1       | 1       | 1       | 0        | 0.000003 |         |
| A (U74B) 2    | 107969_at      | 24 Alcam (activated leukocyte cell adhesion molecule)  | 1       | 1       | 1       | 1       | 0        | 0.000003 |         |
| A (U74A)      | 926448_at      | 25 Stxbp3 (intracellular protein traffic)  | 1       | 1       | 1       | 1       | 0.000003 | 0        |         |
| A (U74A)      | 95745_g_at     | 26 vacuolar adenosine triphosphatase subunit A gene  | 1       | 1       | 1       | 1       | 0.000003 | 0        |         |
| A (U74A)      | 98884_r_at     | 27 Nudel-pending (nuclear distribution gene E-like, centrosome)  | 1       | 1       | 1       | 1       | 0.000001 | 0.000002 |         |
| A (U74A)      | 101554_at      | 28 Ikappa B alpha gene, exons 2-6  | 1       | 1       | 1       | 1       | 0.000004 | 0        |         |
| A (U74C)      | 167230_f_at    | 29 ESTs, Moderately similar to ANX4 MOUSE ANNEXIN IV   | 1       | 1       | 1       | 1       | 0.000001 | 0.000003 |         |
| A (U74B) 2    | 116346_at      | 30 4930506M07Rik (RIKEN cDNA 4930506M07 gene)  | 1       | 1       | 1       | 1       | 0.000003 | 0.000002 |         |
| A (U74A)      | 101042_f_at    | 31 Pep4 (peptidase 4, metalloendopeptidase)  | 1       | 1       | 1       | 1       | 0        | 0.000005 |         |
| A (U74A)      | 103923_at      | 32 transmembrane 7 superfamily member 1  | 1       | 1       | 1       | 1       | 0.000005 | 0        |         |

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Fig. 1A-1



| Analysis Name | Probe Set Name | Gene Name   | Change p-value | Change Status | Change p-value | Change p-value |
|---------------|----------------|---|----------------|---------------|----------------|----------------|
| A (U74A)      | 104179_at      | 33 A1788669 (expressed sequence A1788669)   | 1              | 1             | 0.000005       | 0              |
| A (U74A)      | 160529_r_at    | 34 Vdac2 (voltage-dependent anion channel 2)  | 1              | 1             | 0              | 0.000005       |
| A (U74A)      | 104106_at      | 35 Rp17 (ribosomal protein L7)  | 1              | 1             | 0.000003       | 0.000003       |
| A (U74A)      | 94346_at       | 36 Wt1-pending (Wilms' tumour 1-associated protein)                                       | 1              | 1             | 0.000005       | 0.000001       |
| A (U74B) 2    | 115453_at      | 37 A1324824 (expressed sequence A1324824)   | 1              | 1             | 0.000007       | 0              |
| A (U74A)      | 99413_at       | 38 Cmkbrl (chemokine (C-C) receptor 1)  | 1              | 1             | 0.000007       | 0              |
| A (U74A)      | 102283_at      | 39 Tiam1 (T-cell lymphoma invasion and metastasis 1)                                      | 1              | 1             | 0              | 0.000008       |
| A (U74A)      | 161173_f_at    | 40 ESTs, similar to M31418 Mouse 202 interferon-activatable protein mRNA                  | 1              | 1             | 0.000001       | 0.000007       |
| A (U74C)      | 139395_at      | 41 ESTs (Soares mouse NbMH)   | 1              | 1             | 0.000005       | 0.000003       |
| A (U74B) 2    | 162543_r_at    | 42 Acp5 (acid phosphatase 5, tartrate resistant)  | 1              | 1             | 0.000007       | 0.000002       |
| A (U74A)      | 92642_at       | 43 Car2 (carbonate dehydratase)   | 1              | 1             | 0.000009       | 0              |
| A (U74A)      | 104149_at      | 44 Nfkbia (nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha) | 1              | 1             | 0.000011       | 0              |
| A (U74A)      | 160539_at      | 45 ASF mRNA   | 1              | 1             | 0.000009       | 0.000002       |
| A (U74A)      | 100990_g_at    | 46 Itgb1bp1 (integrin beta 1 binding protein 1)   | 1              | 1             | 0.000008       | 0.000004       |
| A (U74C)      | 168548_f_at    | 47 ESTs, Moderately similar to SUPEROXIDE DISMUTASE                                       | 1              | 1             | 0.000001       | 0.000011       |
| A (U74A)      | 103922_f_at    | 48 I50005G05Rik (RIKEN cDNA 1500005G05 gene)  | 1              | 1             | 0.000002       | 0.000011       |
| A (U74A)      | 94871_r_at     | 49 2900019J22Rik (gene with protein product, function unknown)                            | 1              | 1             | 0.000012       | 0.000001       |
| A (U74A)      | 96634_at       | 50 5730469M10Rik (gene with protein product, function unknown)                            | 1              | 1             | 0.000004       | 0.000009       |
| A (U74A)      | 92302_at       | 51 Sos2 (Son of sevenless homolog 2)  | 1              | 1             | 0              | 0.000014       |
| A (U74A)      | 99993_at       | 52 Anpep (alanyl (membrane) aminopeptidase)   | 1              | 1             | 0              | 0.000014       |
| A (U74B) 2    | 109102_r_at    | 53 2210023K21Rik (RIKEN cDNA 2210023K21 gene)   | 1              | 1             | 0.000009       | 0.000006       |
| A (U74C)      | 169068_i_at    | 54 4930434J08Rik (RIKEN cDNA 4930434J08 gene)   | 1              | 1             | 0.000005       | 0.00001        |
| A (U74C)      | 168377_r_at    | 55 Spphl-pending (sphingosine-1-phosphate phosphatase 1)                                  | 1              | 1             | 0.000004       | 0.000013       |
| A (U74A)      | 160092_at      | 56 Ifrl1 (interferon-related developmental regulator 1)                                   | 1              | 1             | 0.000017       | 0.000001       |
| A (U74A)      | 93471_at       | 57 ESTs, Weakly similar to T14031 sodium bicarbonate cotransporter, pancreatic - mouse    | 1              | 1             | 0.000003       | 0.000015       |
| A (U74A)      | 104206_at      | 58 0610012A05Rik (RIKEN cDNA 0610012A05 gene)   | 1              | 1             | 0.000017       | 0.000002       |
| A (U74A)      | 161703_f_at    | 59 Anxal (annexin A1)   | 1              | 1             | 0.000018       | 0.000001       |
| A (U74A)      | 94733_at       | 60 Abcn4 (ATP-binding cassette, sub-family B (MDR/TAP), member 4)                         | 1              | 1             | 0.000001       | 0.000018       |
| A (U74A)      | 100380_at      | 61 H3 3A variant histone  | 1              | 1             | 0.000013       | 0.000007       |
| A (U74B) 2    | 164245_at      | 62 ESTs, Highly similar to hypothetical protein   | 1              | 1             | 0.000012       | 0.000008       |
| A (U74A)      | 100584_at      | 63 Anxa4 (annexin A4, calcium binding)  | 1              | 1             | 0.000001       | 0.0000021      |

2/30

Fig. 1A-2

**Fig. 1B-1**

| Analysis Name | Probe Set Name | Gene Name   | Change | Change | Status | Change | Change | p-value  | Change   | p-value |
|---------------|----------------|---|--------|--------|--------|--------|--------|----------|----------|---------|
| A (U74B)2     | 115949_at      | ESTs (vg72c11.x1 Soares mouse NbMII)  | 64     | 1      | 1      | 1      | 1      | 0.000021 | 0.000001 |         |
| A (U74A)      | 95625_at       | AA589632 (expressed sequence AA589632)  | 65     | 1      | 1      | 1      | 1      | 0.000003 | 0.000019 |         |
| A (U74A)      | 92597_s_at     | vacuolar adenosine triphosphatase subunit B gene  | 66     | 1      | 1      | 1      | 1      | 0.000023 | 0.000001 |         |
| A (U74A)      | 100499_at      | Stx3 (syntaxin 3)   | 67     | 1      | 1      | 1      | 1      | 0        | 0.000025 |         |
| A (U74A)      | 95746_at       | Atp6al (hydrogen-transporting two-sector ATPase)  | 68     | 1      | 1      | 1      | 1      | 0.000015 | 0.000001 |         |
| A (U74A)      | 100042_at      | Similar to hydroxyacyl glutathione hydrolase  | 69     | 1      | 1      | 1      | 1      | 0.000025 | 0.000005 |         |
| A (U74A)      | 96875_r_at     | 1200003J11Rik (RIKEN cDNA 1200003J11 gene)  | 70     | 1      | 1      | 1      | 1      | 0.000007 | 0.000025 |         |
| A (U74A)      | 103783_at      | Xpr1 (xenotropic and polytropic retrovirus receptor 1)  | 71     | 1      | 1      | 1      | 1      | 0.000029 | 0.000004 |         |
| A (U74A)      | 103328_at      | Tank (TRAF family member-associated Nf-kappa B activator)   | 72     | 1      | 1      | 1      | 1      | 0.000025 | 0.000009 |         |
| A (U74C)      | 138577_at      | Atp6b2 (ATPase, H <sup>+</sup> transporting, lysosomal)   | 73     | 1      | 1      | 1      | 1      | 0.000018 | 0.000018 |         |
| A (U74C)      | 168443_r_at    | AV277485 RIKEN full-length enriched, adult male testis  | 74     | 1      | 1      | 1      | 1      | 0.000037 | 0.000001 |         |
| A (U74B)2     | 106073_at      | ESTs (UI-M-BH2, 1-apg-h-05-0-UI,s1NIH_BMAP_M_S3.1)  | 75     | 1      | 1      | 1      | 1      | 0.000017 | 0.000021 |         |
| A (U74A)      | 102209_at      | Nfatcl (nuclear factor of activated T-cells, cytoplasmic 1)   | 76     | 1      | 1      | 1      | 1      | 0.000034 | 0.000006 |         |
| A (U74A)      | 95795_at       | Sup14h2 gene  | 77     | 1      | 1      | 1      | 1      | 0.000003 | 0.000037 |         |
| A (U74A)      | 99095_at       | Max (Max protein)   | 78     | 1      | 1      | 1      | 1      | 0.000004 | 0        |         |
| A (U74A)      | 102317_at      | Vamp4 (vesicle-associated membrane protein 4)   | 79     | 1      | 1      | 1      | 1      | 0.000001 | 0.00004  |         |
| A (U74A)      | 95064_at       | 0610011L04Rik (RIKEN cDNA 0610011L04 gene)  | 80     | 1      | 1      | 1      | 1      | 0.000043 | 0        |         |
| A (U74C)      | 171517_at      | 2310021H06Rik (RIKEN cDNA 2310021H06 gene)  | 81     | 1      | 1      | 1      | 1      | 0.000023 | 0.000021 |         |
| A (U74A)      | 94005_at       | 3110004018Rik (mitochondrion)   | 82     | 1      | 1      | 1      | 1      | 0.000019 | 0.000027 |         |
| A (U74A)      | 94186_at       | Traf1 (Tnf receptor-associated factor 1)  | 83     | 1      | 1      | 1      | 1      | 0.000037 | 0.000009 |         |
| A (U74A)      | 96951_at       | Atp6m (ATPase, H <sup>+</sup> transporting)   | 84     | 1      | 1      | 1      | 1      | 0.000047 | 0.000001 |         |
| A (U74A)      | 97967_at       | 6230425C21Rik (RIKEN cDNA 6230425C21 gene)  | 85     | 1      | 1      | 1      | 1      | 0.000047 | 0.000001 |         |
| A (U74C)      | 165619_r_at    | 810433K01Rik (RIKEN cDNA 2810433K01 gene)   | 86     | 1      | 1      | 1      | 1      | 0.000041 | 0.000008 |         |
| A (U74A)      | 160836_at      | Sema4d (semaphorin M-sema G mRNA)   | 87     | 1      | 1      | 1      | 1      | 0.000027 | 0.000023 |         |
| A (U74B)2     | 117302_at      | RIKEN full-length enriched library, clone:4932441D06  | 88     | 1      | 1      | 1      | 1      | 0.000005 | 0.000001 |         |
| A (U74A)      | 93773_f_at     | A1227013 (gene with protein product, function unknown)  | 89     | 1      | 1      | 1      | 1      | 0.000014 | 0.000004 |         |
| A (U74B)2     | 116418_at      | AW322671 (yw51e12,r1 Soares_mammary_gland_NbMMG)  | 90     | 1      | 1      | 1      | 1      | 0.000043 | 0.000014 |         |
| A (U74A)      | 95705_s_at     | Actx (melanoma X-actin, cytoskeleton)   | 91     | 1      | 1      | 1      | 1      | 0.000004 | 0.000018 |         |
| A (U74A)      | 97844_at       | Rgs2 (regulator of G-protein signaling 2, GTPase activator)   | 92     | 1      | 1      | 1      | 1      | 0        | 0.000059 |         |
| A (U74A)      | 96919_at       | Atp6l (ATPase, H <sup>+</sup> transporting)   | 93     | 1      | 1      | 1      | 1      | 0.000005 | 0.000009 |         |
| A (U74A)      | 104298_at      | A1842544 (expressed sequence A1842544)  | 94     | 1      | 1      | 1      | 1      | 0.000001 | 0.000063 |         |
| A (U74A)      | 93117_at       | Hnmpa2b1 (ribonucleoprotein)  | 95     | 1      | 1      | 1      | 1      | 0.000063 | 0.000001 |         |
| A (U74C)      | 168116_f_at    | ESTs, Weakly similar to The Pleckstrin Homology Domain From Grpl In Complex With Inositol (1,3,4,5,6) pentakisphosphate | 96     | 1      | 1      | 1      | 1      | 0.000051 | 0.000017 |         |

| Analysis Name | Probe Set Name | Gene Name | Change  |        |        |         | Change   |          |         |         |
|---------------|----------------|-----------|---|--------|--------|---------|----------|----------|---------|---------|
|               |                |           | Change  | Change | Status | p-value | Change   | Change   | p-value | p-value |
| A (U74C)      | I67915_f_at    | 97        | ESTs, Weakly similar to T12449 hypothetical protein                   | 1      | 1      | 1       | 0.000007 | 0.000063 |         |         |
| A (U74C)      | I67918_f_at    | 98        | Spi8 (serine protease inhibitor 8)                                    | 1      | 1      | 1       | 0.000014 | 0.000063 |         |         |
| A (U74C)      | I03205_at      | 99        | Tcigr1 (T-cell, immune regulator 1)                                   | 1      | 1      | 1       | 0.000003 | 0.000079 |         |         |
| A (U74A)      | 98441_at       | 100       | Fmrl (fragile X mental retardation syndrome 1 homolog)                | 1      | 1      | 1       | 0.000068 | 0.000017 |         |         |
| A (U74A)      | I04469_at      | 101       | Gp38 (glycoprotein 38)  | 1      | 1      | 1       | 0.000001 | 0.000085 |         |         |
| A (U74A)      | 96151_at       | 102       | I110018012Rik (RIKEN cDNA I110018012 gene)                            | 1      | 1      | 1       | 0.000001 | 0.000085 |         |         |
| A (U74A)      | I60824_at      | 103       | I110037N09Rik (RIKEN cDNA I110037N09 gene)                            | 1      | 1      | 1       | 0.000025 | 0.000063 |         |         |
| A (U74C)      | I67965_f_at    | 104       | AV370033 RIKEN full-length enriched                                   | 1      | 1      | 1       | 0.000044 | 0.000044 |         |         |
|               |                |           | (similar to U36277 Mus musculus I-kappa B alpha chain)                |        |        |         |          |          |         |         |
| A (U74A)      | I62369_f_at    | 105       | Mmp9 (matrix metalloproteinase 9)                                     | 1      | 1      | 1       | 0.000007 | 0.000085 |         |         |
| A (U74A)      | I04391_s_at    | 106       | D17Wsu51e (DNA segment, Chr 17, Wayne State University 51, expressed) | 1      | 1      | 1       | 0.000099 | 0.000001 |         |         |
| A (U74A)      | I50060_at      | 107       | Slc16a7 (solute carrier family 16, integral membrane protein)         | 1      | 1      | 1       | 0.000085 | 0.000037 |         |         |
| A (U74A)      | 97843_at       | 108       | Ncoa4 (nuclear receptor coactivator 4)                                | 1      | 1      | 1       | 0        | 0.000124 |         |         |
| A (U74A)      | 96709_at       | 109       | C79326 (gene with protein product, function known or inferred)        | 1      | 1      | 1       | 0.000001 | 0.000001 |         |         |
| A (U74C)      | I37475_at      | 110       | A1481660 (vh27b12, xl Soares_mammary_gland_NbMMG)                     | 1      | 1      | 1       | 0.000099 | 0.000029 |         |         |
| A (U74A)      | 92542_at       | 111       | gene with protein product, function unknown                           | 1      | 1      | 1       | 0.000115 | 0.000029 |         |         |
| A (U74A)      | I00880_at      | 112       | ESTs, Weakly similar to B Chain B                                     | 1      | 1      | 1       | 0.000115 | 0.000031 |         |         |
| A (U74C)      | I69667_f_at    | 113       | Anxa5 (annexin A5)  | 1      | 1      | 1       | 0.000085 | 0.000068 |         |         |
| A (U74A)      | 97502_at       | 114       | Dld (dihydrolipoamide dehydrogenase, cytoplasm)                       | 1      | 1      | 1       | 0.000154 | 0        |         |         |
| A (U74A)      | I03715_at      | 115       | Scin (scinderin)  | 1      | 1      | 1       | 0.000154 | 0.000003 |         |         |
| A (U74A)      | 97887_at       | 116       | APOC2 gene, complete CDS, and exons 2 and 3                           | 1      | 1      | 1       | 0.000107 | 0.000005 |         |         |
| A (U74A)      | I04036_at      | 117       | Dpp7 (dipeptidyl peptidase 7)   | 1      | 1      | 1       | 0        | 0.000165 |         |         |
| A (U74A)      | I04671_at      | 118       | Ampd3 gene  | 1      | 1      | 1       | 0        | 0.000165 |         |         |
| A (U74A)      | 96278_at       | 119       | I110020C13Rik (RIKEN cDNA I110020C13)                                 | 1      | 1      | 1       | 0.000165 | 0.000001 |         |         |
| A (U74A)      | 68533_at       | 120       | 0610009N12Rik (RIKEN cDNA 0610009N12 gene)                            | 1      | 1      | 1       | 0.000165 | 0.000004 |         |         |
| A (U74C)      | I40664_r_at    | 121       | 5716627_RC (ub64f01.xl Soares_mammary_gland_NMLMG)                    | 1      | 1      | 1       | 0.000165 | 0.000004 |         |         |
| A (U74C)      | I66247_at      | 122       | ESTs, Moderately similar to T00380 K1AA0637 protein                   | 1      | 1      | 1       | 0.000107 | 0.000068 |         |         |
| A (U74A)      | I60199_at      | 123       | Hnprc (heterogeneous nuclear ribonucleoprotein C)                     | 1      | 1      | 1       | 0.000177 | 0        |         |         |
| A (U74A)      | I04602_at      | 124       | D2Erd120e (DNA segment, Chr 2, ERATO Doi 120, expressed)              | 1      | 1      | 1       | 0.000001 | 0.000177 |         |         |
| A (U74C)      | I36537_at      | 125       | ESTs (v199f07.x1 Barstead mouse pooled organs MPLRB4)                 | 1      | 1      | 1       | 0.000063 | 0.000115 |         |         |
| A (U74B)2     | I10980_at      | 126       | ESTs (UI-M-B1H-ako-e-10-0-UL_si NIH_BMAP_M_S2)                        | 1      | 1      | 1       | 0.000003 | 0.000177 |         |         |
| A (U74A)      | 96060_at       | 127       | Serpinb6 (serine protease inhibitor)                                  | 1      | 1      | 1       | 0        | 0.000191 |         |         |
| A (U74A)      | I02249_at      | 128       | advillin  | 1      | 1      | 1       | 0        | 0.000191 |         |         |

Fig. 1B-2

5/30

| Analysis Name | Probe Set Name | Gene Name   | Change | Change | Status | Change   | Change   | p-value |
|---------------|----------------|---|--------|--------|--------|----------|----------|---------|
| A (U74B)2     | 116400_at      | 4632415D10Rik (RIKEN cDNA 4632415D10 gene)                      | 1      | 1      | 1      | 0.000063 | 0.000165 |         |
| A (U74A)      | 104589_at      | Rmp-pending (RPB5-mediating protein)                            | 1      | 1      | 1      | 0.000191 | 0.000054 |         |
| A (U74A)      | 160979_at      | ESTs (UI-M-BH2,3-aoa-c-03-0-Ul, s1 NIH_BMAP_MS3, 3)             | 1      | 1      | 1      | 0.000236 | 0.000009 |         |
| A (U74B)2     | 163364_at      | 5730496F10Rik (RIKEN cDNA 5730496F10 gene)                      | 1      | 1      | 1      | 0.00004  | 0.000205 |         |
| A (U74B)2     | 162927_at      | transmembrane protein Bet, complete cds                         | 1      | 1      | 1      | 0.000243 | 0.000007 |         |
| A (U74A)      | 95058_f_at     | 2610205H19Rik (RIKEN cDNA 2610205H19)                           | 1      | 1      | 1      | 0.000253 | 0        |         |
| A (U74B)2     | 106302_at      | ETSSs, Weakly similar to All-1 protein +GTE form                | 1      | 1      | 1      | 0.000063 | 0.00022  |         |
| A (U74C)      | 170331_i_at    | ESTs, AV043202 Mus musculus adult C57BL/6J testis               | 1      | 1      | 1      | 0.000023 | 0.000273 |         |
| A (U74A)      | 104268_at      | interleukin-6 (IL-6) receptor                                   | 1      | 1      | 1      | 0.00005  | 0.000253 |         |
| A (U74A)      | 94433_at       | AI316867 (expressed sequence AI316867)                          | 1      | 1      | 1      | 0.000311 | 0        |         |
| A (U74A)      | 99678_f_at     | Atp51 (ATP synthase, H+ transporting, mitochondrial F0 complex) | 1      | 1      | 1      | 0.000092 | 0.00022  |         |
| A (U74A)      | 102000_f_at    | 1500004006Rik (RIKEN cDNA 1500004006 gene)                      | 1      | 1      | 1      | 0.000311 | 0.000001 |         |
| A (U74A)      | 161969_f_at    | Capg (capping protein (actin filament), gelsolin-like)          | 1      | 1      | 1      | 0.000003 | 0.000311 |         |
| A (U74A)      | 103471_at      | 4432405K22Rik (RIKEN cDNA 4432405K22 gene)                      | 1      | 1      | 1      | 0.000027 | 0.00029  |         |
| A (U74C)      | 136663_at      | ESTs, UI-M-AO1-ael-c-05-0-Ul.s1 NIH_BMAP_MPQ_N                  | 1      | 1      | 1      | 0.00022  | 0.000099 |         |
| A (U74A)      | 162094_f_at    | Wilms' tumour 1-associating protein                             | 1      | 1      | 1      | 0.000236 | 0.000085 |         |
| A (U74A)      | 97919_at       | 1110021E09Rik (RIKEN cDNA 1110021E09 gene)                      | 1      | 1      | 1      | 0.000311 | 0.000011 |         |
| A (U74A)      | 101995_at      | Sqstml (sequestosome 1, transcription co-factor)                | 1      | 1      | 1      | 0.000333 | 0        |         |
| A (U74B)2     | 108493_at      | 4632462116Rik (RIKEN cDNA 4632432J16 gene)                      | 1      | 1      | 1      | 0.000236 | 0.000099 |         |
| A (U74A)      | 95288_i_at     | A1848106 (expressed sequence A1848406)                          | 1      | 1      | 1      | 0.000332 | 0.000003 |         |
| A (U74B)2     | 112857_g_at    | 4930404N11Rik (RIKEN cDNA 4930404N11 gene)                      | 1      | 1      | 1      | 0.000253 | 0.000085 |         |
| A (U74C)      | 168210_r_at    | ESTs, Weakly similar to vacuolar ATP synthase subunit D         | 1      | 1      | 1      | 0.000006 | 0.000333 |         |
| A (U74C)      | 166304_f_at    | 5730403E06Rik (RIKEN cDNA 5730403E06 gene)                      | 1      | 1      | 1      | 0.000333 | 0.000007 |         |
| A (U74A)      | 100479_at      | Dnmt3a (DNA methyltransferase 3A)                               | 1      | 1      | 1      | 0.000333 | 0.000011 |         |
| A (U74A)      | 161756_at      | 4833420N02Rik (RIKEN cDNA 4833420N02 gene)                      | 1      | 1      | 1      | 0.00029  | 0.000115 |         |
| A (U74A)      | 104308_at      | Igax (integrin alpha X)   | 1      | 1      | 1      | 0.000408 | 0        |         |
| A (U74A)      | 96281_at       | Atp6gl (ATPase, H+ transporting)                                | 1      | 1      | 1      | 0.000408 | 0        |         |
| A (U74A)      | 98473_at       | Arg2 (arginase type II)   | 1      | 1      | 1      | 0.000029 | 0.000382 |         |
| A (U74A)      | 161754_f_at    | Glb1 (galactosidase, beta 1)                                    | 1      | 1      | 1      | 0.000013 | 0.000408 |         |
| A (U74A)      | 160399_r_at    | H2afy (H2A histone family, member Y)                            | 1      | 1      | 1      | 0.000014 | 0.000408 |         |
| A (U74B)2     | 106617_at      | AW123240 (expressed sequence AW123240)                          | 1      | 1      | 1      | 0.000437 | 0.000001 |         |
| A (U74A)      | 94774_at       | Ifi202a (interferon activated gene 202A)                        | 1      | 1      | 1      | 0.000437 | 0.000001 |         |
| A (U74A)      | 98981_s_at     | Tcf12 (transcription factor 12)                                 | 1      | 1      | 1      | 0.000068 | 0.000382 |         |

Fig. 1C-1

| Analysis  | Probe Set Name | Gene Name | Change   |   |   |   | Change p-value |
|-----------|----------------|-----------|--|---|---|---|----------------|
|           |                |           | 1  | 1 | 1 | 1 |                |
| A (U74A)  | 92598_at       | 162       | Atp6b2 (hydrogen-transporting)   | 1 | 1 | 1 | 0.000467       |
| A (U74A)  | 92480_f_at     | 163       | Zfp1118 (Zinc finger protein 118)  | 1 | 1 | 1 | 0.000467       |
| A (U74A)  | 94939_at       | 164       | Cd53 (CD53 antigen)  | 1 | 1 | 1 | 0.000012       |
| A (U74A)  | 160141_r_at    | 165       | 5730507C05Rik (RIKEN cDNA 5730507C05 gene)   | 1 | 1 | 1 | 0.000408       |
| A (U74A)  | 92492_at       | 166       | adenylyl kinase 3 alpha like   | 1 | 1 | 1 | 0.000382       |
| A (U74A)  | 102644_at      | 167       | Mus musculus (C57BL/10 X C3H)F2 clone 1.5 nivvel mRNA from renin-expressing kidney tumor cell line | 1 | 1 | 1 | 0.000002       |
| A (U74B)2 | 114270_at      | 168       | ESTs, UI-M-BHI-ami-b-10-0-UI.sl  | 1 | 1 | 1 | 0.000011       |
| A (U74C)  | 166804_f_at    | 169       | AV105500 Mus musculus liver C57BL/6J 13-day embryo   | 1 | 1 | 1 | 0.000001       |
| A (U74C)  | 166076_r_at    | 170       | 2500001K11Rik (RIKEN cDNA 2500001K11 gene)   | 1 | 1 | 1 | 0.000057       |
| A (U74B)2 | 114238_at      | 171       | AI426953_mn07e09,y (Beddington mouse embryonic region)   | 1 | 1 | 1 | 0.000053       |
| A (U74A)  | 92660_f_at     | 172       | Ube2el (ubiquitin-conjugating enzyme E2E 1)  | 1 | 1 | 1 | 0.000057       |
| A (U74A)  | 160397_at      | 173       | Mus musculus, Similar to 1K cytokine, down-regulator of HLA 11, clone WGC:25508 IMAGE:490184, mRNA | 1 | 1 | 1 | 0.000001       |
| A (U74A)  | 98468_r_at     | 174       | A1316859 (expressed sequence A1316859)   | 1 | 1 | 1 | 0.000085       |
| A (U74A)  | 92356_at       | 175       | Pipn8 (protein tyrosine phosphatase, non-receptor type 8)  | 1 | 1 | 1 | 0.000649       |
| A (U74C)  | 1666673_at     | 176       | AV319021 RIKEN full-length enriched, 13 days embryo male testis                                    | 1 | 1 | 1 | 0.000001       |
| A (U74A)  | 93970_at       | 177       | 5730403B10Rik (gene with protein product, function unknown)  | 1 | 1 | 1 | 0.000001       |
| A (U74C)  | 140759_at      | 178       | ESTs, Moderately similar to T43486 hypothetical protein DKFZp434N1272.1                            | 1 | 1 | 1 | 0.000004       |
| A (U74A)  | 95070_at       | 179       | Nars (asparaginyl-tRNA synthetase)   | 1 | 1 | 1 | 0.000057       |
| A (U74C)  | 168018_at      | 180       | hypothetical protein, MGC:7041   | 1 | 1 | 1 | 0.000133       |
| A (U74A)  | 94476_at       | 181       | AA672926 (RIKEN cDNA 4930553M18)   | 1 | 1 | 1 | 0.000533       |
| A (U74A)  | 92847_s_at     | 182       | M6pr (integral membrane protein)   | 1 | 1 | 1 | 0.000022       |
| A (U74A)  | 102222_at      | 183       | Utx (ubiquitously transcribed tetratricopeptide repeat gene)                                       | 1 | 1 | 1 | 0.000085       |
| A (U74A)  | 104314_r_at    | 184       | 1110032A03Rik (RIKEN cDNA 1110032A03 gene)   | 1 | 1 | 1 | 0.000693       |
| A (U74A)  | 102940_at      | 185       | Ltb (lymphotoxin B)  | 1 | 1 | 1 | 0.000739       |
| A (U74A)  | 99051_at       | 186       | m1s1 protein gene, exon 2  | 1 | 1 | 1 | 0.000001       |
| A (U74C)  | 171593_at      | 187       | Cox5a (cytochrome c oxidase, subunit Va)   | 1 | 1 | 1 | 0.00029        |
| A (U74A)  | 100905_at      | 188       | 4921531D01Rik (RIKEN cDNA 4921531D01 gene)   | 1 | 1 | 1 | 0.000467       |
| A (U74A)  | 103443_at      | 189       | Aim1 (absent in melanoma 1)  | 1 | 1 | 1 | 0.000789       |
| A (U74A)  | 102211_r_at    | 190       | A1605202 (expressed sequence A1605202)   | 1 | 1 | 1 | 0.000253       |
| A (U74A)  | 161912_r_at    | 191       | Numb (numb gene homolog (Drosophila))  | 1 | 1 | 1 | 0.000581       |
| A (U74A)  | 103222_at      | 192       | Eps8 (epidermal growth factor receptor pathway substrate 8)  | 1 | 1 | 1 | 0.000841       |
| A (U74A)  | 96752_at       | 193       | intercellular adhesion molecule 1 (ICAM-1) gene, exons 6 and 7                                     | 1 | 1 | 1 | 0.000001       |

Fig. 1C-2

# Fig. 1D-1

| Analysis Name | Probe Set Name | Gene Name   | Change | Status | Change | Status | Change | Change   | Change   |
|---------------|----------------|---|--------|--------|--------|--------|--------|----------|----------|
| A (U74A)      | 102060_at      | 194 Golga4 (Golgi autoantigen, golgin subfamily a, 4)                         | -1     | 1      | -1     | 1      | -1     | 0.000739 | 0.000115 |
| A (U74B)2     | 110269_at      | 195 231003210Rik (RIKEN cDNA 231003210 gene)                                  | -1     | 1      | -1     | 1      | -1     | 0.000205 | 0.000649 |
| A (U74A)      | 92582_at       | 196 Slc1a7 (membrane)   | -1     | 1      | -1     | 1      | -1     | 0.000649 | 0.00022  |
| A (U74A)      | 93994_at       | 197 Mus musculus 10 day old male pancreas cDNA                                | -1     | 1      | -1     | 1      | -1     | 0.000739 | 0.000177 |
| A (U74A)      | 102384_at      | 198 2610209L14Rik (RIKEN cDNA 2610209L14 gene)                                | -1     | 1      | -1     | 1      | -1     | 0.000437 | 0.000499 |
| A (U74C)      | 168478_s_at    | 199 5730496F10Rik (RIKEN cDNA 5730496F10 gene)                                | -1     | 1      | -1     | 1      | -1     | 0.000608 | 0.000333 |
| A (U74A)      | 93038_f_at     | 200 lipocortin 1 gene, exon 13  | -1     | 1      | -1     | 1      | -1     | 0.000955 | 0        |
| A (U74A)      | 102872_f_at    | 201 Zfp51 (zinc finger protein 51)  | -1     | 1      | -1     | 1      | -1     | 0.000789 | 0.000177 |
| A (U74A)      | 161617_f_at    | 202 2410001E19Rik (RIKEN cDNA 2410001E19 gene)                                | -1     | 1      | -1     | 1      | -1     | 0.000611 | 0.000376 |
| A (U74A)      | 95784_at       | 203 Piral (paired Ig-like receptor A1)  | -1     | 1      | -1     | 1      | -1     | 0.000001 | 0.001017 |
| A (U74C)      | 130186_f_at    | 204 Tcigr1 (T-cell, immune regulator 1)                                       | -1     | 1      | -1     | 1      | -1     | 0.000004 | 0.001017 |
| A (U74A)      | 97914_at       | 205 mitochondrial stress-70 protein (PBP74/CSA), exon 14, 15, 16 and 17       | -1     | 1      | -1     | 1      | -1     | 0.000143 | 0.000896 |
| A (U74A)      | 96790_f_at     | 206 AU015645 (expressed sequence AU015645)                                    | -1     | 1      | -1     | 1      | -1     | 0.000236 | 0.000841 |
| A (U74A)      | 96696_at       | 207 UI-M-AK0-adc-e-02-0-Ui.sl   | -1     | 1      | -1     | 1      | -1     | 0.001082 | 0.000002 |
| A (U74A)      | 96013_r_at     | 208 Matr3 (matrin 3)  | -1     | 1      | -1     | 1      | -1     | 0.001082 | 0.000009 |
| A (U74A)      | 97710_f_at     | 209 Mpv17 (Mpv17 transgene, kidney disease mutant-like)                       | -1     | 1      | -1     | 1      | -1     | 0.000789 | 0.000311 |
| A (U74B)2     | 109355_at      | 210 ESTs, Weakly similar to T00039 hypothetical protein KIAA0290              | -1     | 1      | -1     | 1      | -1     | 0.000057 | 0.000533 |
| A (U74A)      | 95010_at       | 211 Traf3 (Tnf receptor-associated factor 3)                                  | -1     | 1      | -1     | 1      | -1     | 0.00057  | 0.000533 |
| A (U74A)      | 98767_at       | 212 Yy1 (YY1 transcription factor)  | -1     | 1      | -1     | 1      | -1     | 0.001082 | 0.00004  |
| A (U74C)      | 167634_i_at    | 213 ESTs, AV247190 RIKEN full-length enriched, 0 day neonate head             | -1     | 1      | -1     | 1      | -1     | 0.001117 | 0.000009 |
| A (U74A)      | 93445_at       | 214 Apo6 (apoptosis inhibitory 6)   | -1     | 1      | -1     | 1      | -1     | 0.000005 | 0.001152 |
| A (U74A)      | 160949_at      | 215 Parg (poly (ADP-ribose) glycohydrolase)                                   | -1     | 1      | -1     | 1      | -1     | 0.001152 | 0.000029 |
| A (U74A)      | 161696_f_at    | 216 C77080 (expressed sequence C77080)  | -1     | 1      | -1     | 1      | -1     | 0.001152 | 0.000074 |
| A (U74B)2     | 113740_at      | 217 AI225872 (yx57d10.rl Stratagene mouse macrophage (#937306))               | -1     | 1      | -1     | 1      | -1     | 0.001226 | 0.000031 |
| A (U74C)      | 171048_i_at    | 218 AV338811 RIKEN full-length enriched, adult male olfactory bulb            | -1     | 1      | -1     | 1      | -1     | 0.000419 | 0.000854 |
| A (U74A)      | 162463_at      | 219 Tpd52 (tumor protein D52)   | -1     | 1      | -1     | 1      | -1     | 0.000896 | 0.000382 |
| A (U74A)      | 93907_f_at     | 220 MIA14 full-length intracisternal A-particle gag protein gene              | -1     | 1      | -1     | 1      | -1     | 0.000133 | 0.001152 |
| A (U74C)      | 165724_at      | 221 4930438D12Rik RIKEN cDNA 4930438D12 gene                                  | -1     | 1      | -1     | 1      | -1     | 0.001304 | 0.000002 |
| A (U74A)      | 104621_at      | 222 ESTs, Highly similar to T00268 hypothetical protein KIAA0597 [H. sapiens] | -1     | 1      | -1     | 1      | -1     | 0.001226 | 0.000133 |
| A (U74A)      | 97853_at       | 223 AA408851 (gene with protein product, function unknown)                    | -1     | 1      | -1     | 1      | -1     | 0.001226 | 0.000133 |
| A (U74C)      | 166852_at      | 224 AI851877 (UI-M-BH0-aix-a-11-0-UJ. sl NIH_BMAP_M_SI)                       | -1     | 1      | -1     | 1      | -1     | 0.000043 | 0.001387 |
| A (U74A)      | 160103_at      | 225 Axot (axotrophin)   | -1     | 1      | -1     | 1      | -1     | 0.001387 | 0.000079 |
| A (U74A)      | 160156_at      | 226 vx55cl.rl Stratagene mouse macrophage                                     | -1     | 1      | -1     | 1      | -1     | 0        | 0.001474 |

7/30

8/30

| Analysis Name | Probe Set Name | Gene Name  | Change  | Status | Change  | Change   | Change   |
|---------------|----------------|--|---------|--------|---------|----------|----------|
|               |                |  | p-value |        | p-value | p-value  | p-value  |
| A (U74A)      | 96900_at       | 227 Als2 (amyotrophic lateral sclerosis 2)   | 1       | 1      | 1       | 0.001474 | 0.000001 |
| A (U74A)      | 92191_at       | 228 2810410A08Rik (RIKEN cDNA 2810410A08 gene)   | 1       | 1      | 1       | 0.001474 | 0.000006 |
| A (U74A)      | 160697_at      | 229 C77080 (expressed sequence C77080)   | 1       | 1      | 1       | 0.001474 | 0.00004  |
| A (U74A)      | 161695_f_at    | 230 Slc6a4 (solute carrier family 6 (neurotransmitter transporter; serotonin), member 4) | 1       | 1      | 1       | 0.000467 | 0.001082 |
| A (U74A)      | 100570_at      | 231 Nyren18-pending (NY-REN-18 antigen)  | 1       | 1      | 1       | 0.000085 | 0.001474 |
| A (U74A)      | 92638_at       | 232 Ppp2ca (protein serine/threonine phosphatase)  | 1       | 1      | 1       | 0.001474 | 0.000085 |
| A (U74A)      | 99143_at       | 233 Tgohn2 (trans-golgi network protein 2)   | 1       | 1      | 1       | 0.001566 | 0.000003 |
| A (U74A)      | 102002_at      | 234 Ubqln2 (ubiquilin 2)   | 1       | 1      | 1       | 0.000004 | 0.001566 |
| A (U74A)      | 161244_f_at    | 235 Pstpl1 (proline-serine-threonine phosphatase-interacting protein 1)                  | 1       | 1      | 1       | 0.000789 | 0.000789 |
| A (U74A)      | 103235_at      | 236 0710005AU05Rik (RIKEN cDNA 0710005AU05 gene)   | 1       | 1      | 1       | 0.000205 | 0.001387 |
| A (U74A)      | 97395_at       | 237 D19Wsu5e (DNA segment, Chr 19, Wayne State University 55, expressed)                 | 1       | 1      | 1       | 0.001566 | 0.000029 |
| A (U74A)      | 101004_f_at    | 238 Srp20 gene   | 1       | 1      | 1       | 0.001474 | 0.00165  |
| A (U74A)      | 98112_r_at     | 239 2140015LJ0Rik (leucine aminopeptidase)   | 1       | 1      | 1       | 0.000271 | 0.001387 |
| A (U74A)      | 103444_at      | 240 ESTs, Weakly similar to SMB2 MOUSE DNA-BINDING PROTEIN SMUBP-2                       | 1       | 1      | 1       | 0.000001 | 0.001664 |
| A (U74A)      | 103312_f_at    | 241 C79684 (expressed sequence C79684)   | 1       | 1      | 1       | 0.000012 | 0.001664 |
| A (U74A)      | 97947_at       | 242 1700031C13Rik (RIKEN cDNA 1700031C13 gene)   | 1       | 1      | 1       | 0.000333 | 0.001387 |
| A (U74A)      | 100561_at      | 243 IQ motif containing GTPase activating protein 1                                      | 1       | 1      | 1       | 0.000437 | 0.001304 |
| A (U74C)      | 168016_r_at    | 244 6030404E6Rik (RIKEN cDNA 6030404E6 gene)   | 1       | 1      | 1       | 0.000739 | 0.001017 |
| A (U74A)      | 94806_at       | 245 Pdhb (pyruvate dehydrogenase (lipoamide) beta)                                       | 1       | 1      | 1       | 0.001664 | 0.000115 |
| A (U74A)      | 95533_at       | 246 Zfp106 (zinc finger protein 106)   | 1       | 1      | 1       | 0.000124 | 0.001664 |
| A (U74A)      | 160263_r_at    | 247 0710001020Rik (RIKEN cDNA 0710001020 gene)   | 1       | 1      | 1       | 0.00004  | 0.001767 |
| A (U74A)      | 101502_at      | 248 Tgif (TG interacting factor, transcription factor)                                   | 1       | 1      | 1       | 0.001876 | 0        |
| A (U74A)      | 99856_r_at     | 249 Ctnd2 (catenin (cadherin-associated protein), delta 2)                               | 1       | 1      | 1       | 0.001543 | 0.000333 |
| A (U74A)      | 102124_f_at    | 250 Cox4a (cytochrome c oxidase, subunit IVa)  | 1       | 1      | 1       | 0.001304 | 0.000608 |
| A (U74B)2     | 112926_at      | 251 hypothetical protein, MGC7036  | 1       | 1      | 1       | 0.000047 | 0.001876 |
| A (U74B)2     | 108058_at      | 252 2810441M03Rik (RIKEN cDNA 2810441M03 gene)   | 1       | 1      | 1       | 0.001664 | 0.00029  |
| A (U74A)      | 161127_i_at    | 253 ESTs, Weakly similar to RL24_HUMAN 60S RIBOSOMAL PROTEIN                             | 1       | 1      | 1       | 0.000905 | 0.001056 |
| A (U74C)      | 167468_at      | 254 AW11752 (expressed sequence AW011752)  | 1       | 1      | 1       | 0.001876 | 0.000107 |
| A (U74B)2     | 111877_at      | 255 ESTs, Highly similar to T41751_1-afadin - rat  | 1       | 1      | 1       | 0.000003 | 0.001991 |
| A (U74A)      | 103563_at      | 256 4930534K3Rik (RIKEN cDNA 4930534K3 gene)   | 1       | 1      | 1       | 0.001991 | 0.000003 |
| A (U74A)      | 96724_r_at     | 257 R75011 (expressed sequence R75011)   | 1       | 1      | 1       | 0.000467 | 0.001566 |
| A (U74B)2     | 116599_at      | 258 ESTs v05904_r1 Soares_mammary_gland_NbMMG  | 1       | 1      | 1       | 0.001017 | 0.001017 |

Fig. 1D-2

| Analysis Name | Probe Set Name | Gene Name  | Change  | Change  | Status | Change  | Change   | Change   | Change  |
|---------------|----------------|--|---------|---------|--------|---------|----------|----------|---------|
|               |                |  | p-value | p-value |        | p-value | p-value  | p-value  | p-value |
| A (U74A)      | 93964_s_at     | 259 Mus musculus putative RNA helicase RCK mRNA  | 1       | 1       | 1      | 1       | 0.001991 | 0.000043 |         |
| A (U74A)      | 102205_at      | 260 Mafb (v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian))        | 1       | 1       | 1      | 1       | 0.000311 | 0.001767 |         |
| A (U74A)      | 93491_f_at     | 261 1100001F19Rik (gene with protein product, function unknown)                            | 1       | 1       | 1      | 1       | 0.000001 | 0.002112 |         |
| A (U74A)      | 102425_at      | 262 Tie (transducin-like enhancer of split 1, homolog of Drosophila E(spl))                | 1       | 1       | 1      | 1       | 0.001991 | 0.000154 |         |
| A (U74A)      | 94832_at       | 263 Ags, L44L, and Btk genes   | 1       | 1       | 1      | 1       | 0.000063 | 0.002112 |         |
| A (U74A)      | 101684_r_at    | 264 Srst (simple repeat sequence-containing transcript)                                    | 1       | 1       | 1      | 1       | 0.000074 | 0.002112 |         |
| A (U74A)      | 99823_r_at     | 265 D18Ert2D32e (DNA segment, Chr 18, ERATO Doi 232)                                       | 1       | 1       | 1      | 1       | 0.001304 | 0.000896 |         |
| A (U74A)      | 94076_i_at     | 266 Rpn2 (ribophorin II)   | 1       | 1       | 1      | 1       | 0.000007 | 0.002195 |         |
| A (U74B)2     | 114812_at      | 267 Pmaip1 (phorbol-12-myristate-13-acetate-induced protein 1)                             | 1       | 1       | 1      | 1       | 0.000003 | 0.002244 |         |
| A (U74A)      | 99522_at       | 268 Gsg2 (germ cell-specific gene 2)   | 1       | 1       | 1      | 1       | 0.000019 | 0.002244 |         |
| A (U74A)      | 104612_g_at    | 269 C77982 (expressed sequence C77982)   | 1       | 1       | 1      | 1       | 0.000896 | 0.001474 |         |
| A (U74A)      | 160947_at      | 270 A1851258 (expressed sequence A1851258)   | 1       | 1       | 1      | 1       | 0.002375 | 0.000034 |         |
| A (U74B)2     | 162618_at      | 271 A1785475 (uj42f11.x1 Sugano mouse liver mla)   | 1       | 1       | 1      | 1       | 0.001152 | 0.001304 |         |
| A (U74A)      | 92338_f_at     | 272 Mus musculus cDNA clone IMAGE:2136264_3'   | 1       | 1       | 1      | 1       | 0.000467 | 0.001991 |         |
| A (U74C)      | 166692_at      | 273 A1450803 (expressed sequence A1450803)   | 1       | 1       | 1      | 1       | 0.000896 | 0.001566 |         |
| A (U74C)      | 166999_at      | 274 ESTs, AV152718 Mus musculus hippocampus C57BL/6J                                       | 1       | 1       | 1      | 1       | 0.001991 | 0.000499 |         |
| A (U74A)      | 96695_at       | 275 Ube2a (ubiquitin-conjugating enzyme E2A)   | 1       | 1       | 1      | 1       | 0.001248 | 0.001248 |         |
| A (U74C)      | 167626_r_at    | 276 ESTs, Weakly similar to T22586 hypothetical protein F53F4. 14 - Caenorhabditis elegans | 1       | 1       | 1      | 1       | 0.001767 | 0.000739 |         |
| A (U74C)      | 168057_f_at    | 277 ESTs, Weakly similar to T00268 hypothetical protein KIAA0597                           | 1       | 1       | 1      | 1       | 0.002112 | 0.000499 |         |
| A (U74A)      | 94043_at       | 278 Ap6s1 (integral membrane protein)  | 1       | 1       | 1      | 1       | 0.000557 | 0.002244 |         |
| A (U74B)2     | 111381_r_at    | 279 AV216087 (vn21e07.rl Knowles Solter mouse blastocyst B1)                               | 1       | 1       | 1      | 1       | 0.001664 | 0.001226 |         |
| A (U74A)      | 160442_at      | 280 Cctb gene for chaperonin containing TCP-1 beta subunit                                 | 1       | 1       | 1      | 1       | 0.001304 | 0.001664 |         |
| A (U74C)      | 169904_r_at    | 281 Ebaf (endometrial bleeding associated factor)  | 1       | 1       | 1      | 1       | 0.002244 | 0.001017 |         |
| A (U74A)      | 102017_at      | 282 Prpk (pre-mRNA protein kinase)   | 1       | 1       | 1      | 1       | 0.001876 | 0.001387 |         |
| A (U74A)      | 161377_at      | 283 Emrl (EGF-like module containing, mucin-like, hormone receptor-like sequence 1)        | 1       | 1       | 1      | 1       | 0.001474 | 0.002244 |         |
| A (U74C)      | 168277_r_at    | 284 D14Ert2D226e, AV232952 RIKEN full-length enriched, 0 day neonate skin                  | 1       | 1       | 1      | 1       | 0.001664 | 0.001991 |         |
| A (U74A)      | 104489_at      | 285 Smib2 (syntrophin, basic 2)  | 1       | 1       | 1      | 1       | 0.001474 | 0.002244 |         |

Fig. 1E

| Analysis Name | Probe Set Name | Gene Name   | Change  | Change  | Change  | Change  | Change   |
|---------------|----------------|---|---------|---------|---------|---------|----------|
|               |                |   | p-value | p-value | p-value | p-value | p-value  |
| A (U74A)      | 99521_at       | 286 Ak4 (adenylate kinase 4)  | 0       | 0       | 0       | 0       | 0.998009 |
| A (U74B)2     | 115760_at      | 287 Mus musculus, clone MGC:11687 IMAGE:3961992, mRNA, complete cds                               | 0       | 0       | 0       | 0       | 0.999336 |
| A (U74B)2     | 112703_at      | 288 ESTs, U1-M-AQ1-aef-f04-0-U1.si NIH_BMAP_MHL_N   | 0       | 0       | 0       | 0       | 0.999307 |
| A (U74B)2     | 112889_at      | 289 AB041662 (hypothetical protein, MNCb-4193)  | 0       | 0       | 0       | 0       | 0.998233 |
| A (U74B)2     | 112988_at      | 290 ESTs, Weakly similar to AT1B MOUSE POTENTIAL PHOSPHOLIPID-TRANSPORTING ATPASE IB              | 0       | 0       | 0       | 0       | 0.999533 |
| A (U74C)      | 137034_f_at    | 291 5712828_RC, ve47g08.x1 Bedlington mouse embryonic ESTs, vK39e06_x1 Soares_mammary_gland_NbNNG | 0       | 0       | 0       | 0       | 0.997626 |
| A (U74C)      | 133928_at      | 292 ESTs, vK39e06_x1 Soares_mammary_gland_NbNNG   | 0       | 0       | 0       | 0       | 0.997776 |
| A (U74B)2     | 164216_at      | 293 Erol (ERO1-like ( <i>S. cerevisiae</i> ))   | 0       | 0       | 0       | 0       | 0.99971  |
| A (U74B)2     | 113182_at      | 294 DErd10le (DNA segment, Chr 1, ERATO Doi 101, expressed)                                       | 0       | 0       | 0       | 0       | 0.999689 |
| A (U74B)2     | 112401_at      | 295 AU022421 (ua72h12.rl Soares_thymus_2NbMT)   | 0       | 0       | 0       | 0       | 0.999211 |
| A (U74A)      | 101956_at      | 296 ESTs, Weakly similar to S21801 myosin heavy chain   | 0       | 0       | 0       | 0       | 0.999946 |
| A (U74A)      | 98918_at       | 297 D13Wsu115e (home morphogenetic protein 6)   | 0       | 0       | 0       | 0       | 0.999915 |
| A (U74A)      | 93548_at       | 298 AWI22942 (gene with protein product, function unknown)  | 0       | 0       | 0       | 0       | 0.998009 |
| A (U74C)      | AFFX-MURINE_b1 | 299 Mus musculus C57/Black6 BC1 scRNA   | 0       | 0       | 0       | 0       | 0.999269 |
| A (U74A)      | 95468_at       | 300 Egln1 (EGL nine homolog 1)  | 0       | 0       | 0       | 0       | 0.998735 |
| A (U74B)2     | 115354_at      | 301 AU045240 (RIKEN cDNA 1110054A24 gene)   | 0       | 0       | 0       | 0       | 0.999999 |
| A (U74A)      | 95722_at       | 302 Glrx1 (glutaredoxin 1, glutaredoxin)  | 0       | 0       | 0       | 0       | 0.998233 |
| A (U74A)      | 95456_r_at     | 303 Shfdgl (split hand/foot deleted gene 1)   | 0       | 0       | 0       | 0       | 0.999987 |
| A (U74A)      | 95643_at       | 304 Wdr6 (WD repeat domain 6)   | 0       | 0       | 0       | 0       | 0.998526 |
| A (U74C)      | 135189_f_at    | 305 A1413331 (expressed sequence A1413331)  | 0       | 0       | 0       | 0       | 0.99996  |
| A (U74A)      | 99566_at       | 306 triosephosphate isomerase (tpi) gene  | 0       | 0       | 0       | 0       | 1        |
| A (U74B)2     | 112767_s_at    | 307 Utrn (utrophin)   | 0       | 0       | 0       | 0       | 0.998526 |
| A (U74B)2     | 115920_at      | 308 EST C78892  | 0       | 0       | 0       | 0       | 0.999997 |
| A (U74A)      | AFFX-MURINE_b1 | 309 Mus musculus C57/Black6 BC1 scRNA   | 0       | 0       | 0       | 0       | 0.999958 |
| A (U74A)      | 94322_at       | 310 Sqle (squalene epoxidase, integral membrane protein)  | 0       | 0       | 0       | 0       | 1        |
| A (U74A)      | 95636_at       | 311 1110020A23Rik (RIKEN cDNA 1110020A23 gene)  | 0       | 0       | 0       | 0       | 0.999689 |
| A (U74A)      | 93602_at       | 312 Rpsk44 (ribosomal protein S6 kinase)  | 0       | 0       | 0       | 0       | 0.999501 |
| A (U74B)2     | 107005_at      | 313 DErd10le (DNA segment, Chr 1, ERATO Doi 101, expressed)                                       | 0       | 0       | 0       | 0       | 0.999392 |
| A (U74A)      | 93264_at       | 314 Srebfl (sterol regulatory element binding factor 1, integral membrane protein)                | 0       | 0       | 0       | 0       | 0.999159 |
| A (U74B)2     | 108095_at      | 315 Egln1 (EGL nine homolog 1)  | 0       | 0       | 0       | 0       | 1        |
| A (U74B)2     | 112977_at      | 316 ESTs, U1-M-BHI-amb-a-03-0-U1_si NIH_BMAP_M_S2   | 0       | 0       | 0       | 0       | 0.999987 |
| A (U74A)      | 160862_at      | 317 Ptp4a3 (protein tyrosine phosphatase 4a3)   | 0       | 0       | 0       | 0       | 0.999261 |

Fig. 2A-1

11/30

| Analysis Name | Probe Set Name | Gene Name   | Change  | Change  | Change  | Status   |
|---------------|----------------|---|---------|---------|---------|----------|
|               |                |   | p-value | p-value | p-value |          |
| A (U74A)      | 101930_at      | 318 Nfix (nuclear factor I/X)   | 0       | 0       | 0       | 0.999999 |
| A (U74A)      | 95758_at       | 319 Scd2 (stearoyl-Coenzyme A desaturase 2, integral membrane protein)                  | 0       | 0       | 0       | 0.999999 |
| A (U74B)2     | 109390_at      | 320 Siat10 (sialyltransferase 10 (alpha-2,3-sialyltransferase VI))                      | 0       | 0       | 0       | 0.999908 |
| A (U74B)2     | 115756_at      | 321 Fgd2 (faciogenital dysplasia homolog 2 (human))                                     | 0       | 0       | 0       | 0.999392 |
| A (U74B)2     | 107435_at      | 322 BB104748 (expressed sequence BB104748)  | 0       | 0       | 0       | 0.99996  |
| A (U74B)2     | 115556_s_at    | 323 AI552584 (expressed sequence AI552584)  | 0       | 0       | 0       | 0.99998  |
| A (U74B)2     | 111380_at      | 324 111001IE12Rik (RIKEN cDNA 111001IE12 gene)  | 0       | 0       | 0       | 0.99973  |
| A (U74A)      | 95674_r_at     | 325 2610024P12Rik (RIKEN cDNA 2610024P12 gene)  | 0       | 0       | 0       | 0.999689 |
| A (U74A)      | 160065_s_at    | 326 Csp (cysteine rich protein)   | 0       | 0       | 0       | 0.99954  |
| A (U74A)      | 102208_at      | 327 Siat10 (sialyltransferase 10)   | 0       | 0       | 0       | 0.99977  |
| A (U74A)      | 96008_at       | 328 Defender against Apoptotic Death (Dadl) gene, exon 3                                | 0       | 0       | 0       | 0.99975  |
| A (U74A)      | 98129_at       | 329 Tmsb10 (thymosin, beta 10)  | 0       | 0       | 0       | 0.99975  |
| A (U74B)2     | 108614_f_at    | 330 1110012005Rik (RIKEN cDNA 1110012005 gene)  | 0       | 0       | 0       | 0.999876 |
| A (U74A)      | 160568_at      | 331 Enol (enolase 1, alpha non-neuron)  | 0       | 0       | 0       | 0.999901 |
| A (U74C)      | 166122_at      | 332 4930583H14Rik (RIKEN cDNA 4930583H14 gene)  | 0       | 0       | 0       | 0.999952 |
| A (U74B)2     | 105752_f_at    | 333 Gcn5l2 (general control of amino acid synthesis-like 2 (yeast))                     | 0       | 0       | 0       | 0.999885 |
| A (U74A)      | 96359_at       | 334 D1Erd101e (DNA segment)   | 0       | 0       | 0       | 0.99969  |
| A (U74A)      | 922322_at      | 335 Cish3 (cytokine inducible SH2-containing protein 3)                                 | 0       | 0       | 0       | 0.999908 |
| A (U74C)      | 165678_i_at    | 336 AV022454 (expressed sequence AV022454)  | 0       | 0       | 0       | 1        |
| A (U74A)      | 101495_at      | 337 MD3 mRNA  | 0       | 0       | 0       | 0.999955 |
| A (U74A)      | 93574_at       | 338 Serpinf1 (serine proteinase inhibitor, serpin)                                      | 0       | 0       | 0       | 0.99999  |
| A (U74A)      | 101571_g_at    | 339 insulin like growth factor binding protein 4  | 0       | 0       | 0       | 0.999957 |
| A (U74A)      | 99024_at       | 340 Mad4 (Max dimerization protein 4)   | 0       | 0       | 0       | 0.99996  |
| A (U74B)2     | 112405_at      | 341 MCT4 (monocarboxylate transporter 4)  | 0       | 0       | 0       | 0.99996  |
| A (U74A)      | 94057_g_at     | 342 stearoyl-CoA desaturase gene, exon 6  | 0       | 0       | 0       | 0.999986 |
| A (U74A)      | 101587_at      | 343 Ephx1 (epoxide hydrolase 1, epoxide hydrolase)                                      | 0       | 0       | 0       | 0.999985 |
| A (U74A)      | 92858_at       | 344 secretory leukoprotease inhibitor gene  | 0       | 0       | 0       | 0.999983 |
| A (U74B)2     | 163664_at      | 345 Faddsd2 (fatty acid desaturase 2)   | 0       | 0       | 0       | 0.999986 |
| A (U74A)      | 160424_f_at    | 346 farnesylypyrophosphate synthase (Fpps) mRNA   | 0       | 0       | 0       | 0.999979 |
| A (U74B)2     | 163063_i_at    | 347 150004A08Rik (RIKEN cDNA 150004A08 gene)  | 0       | 0       | 0       | 0.999987 |
| A (U74A)      | 93836_at       | 348 Bnip3 (BCL2/adenovirus E1B 19 kDa-interacting protein 1, integral membrane protein) | 0       | 0       | 0       | 0.999993 |
| A (U74A)      | 104728_at      | 349 Prosl (protein S (alpha))   | 0       | 0       | 0       | 0.999999 |
| A (U74B)2     | 164098_at      | 350 Fzd7 (frizzled homolog 7 (Drosophila))  | 0       | 0       | 0       | 0.999996 |

Fig. 2A-2

| Analysis Name | Probe Set Name | Gene Name  | Change  | Change  | Status | Change   | Change   |
|---------------|----------------|--|---------|---------|--------|----------|----------|
|               |                |  | p-value | p-value |        | p-value  | p-value  |
| A (U74A)      | 98496_at       | 351 Glysl (glycogen synthase 1, enzyme)  | 0       | 0       | 0      | 0.999997 | 0.999999 |
| A (U74A)      | 101084_f_at    | 352 H110001H19Rik (RIKEN cDNA 1110001H19 gene)                                     | 0       | 0       | 0      | 0.999996 | 1        |
| A (U74A)      | 97885_at       | 353 1810009M01Rik (LR8 protein)  | 0       | 0       | 0      | 0.999999 | 0.999999 |
| A (U74A)      | 94056_at       | 354 stearoyl-CoA desaturase gene, exon 6   | 0       | 0       | 0      | 0.999999 | 0.999999 |
| A (U74A)      | 99599_s_at     | 355 1110030G05Rik (RIKEN cDNA 1110030G05 gene)                                     | 0       | 0       | 0      | 0.999999 | 0.999999 |
| A (U74A)      | 93583_s_at     | 356 Mouse germ line gene fragment for mu-immunoglobulin C-terminus (secreted form) | 0       | 0       | 0      | 0.999999 | 0.999999 |
| A (U74A)      | 94304_at       | 357 Anxa6 (annexin A6, calcium binding)  | 0       | 0       | 0      | 0.999999 | 0.999999 |
| A (U74A)      | 96605_at       | 358 0610011I04Rik (gene with protein product, function unknown)                    | 0       | 0       | 0      | 0.999999 | 0.999999 |
| A (U74A)      | 99098_at       | 359 farnesylyl pyrophosphate synthase (Fpps) mRNA                                  | 0       | 0       | 0      | 0.999999 | 0.999999 |
| A (U74C)      | 166934_s_at    | 360 Lamb1-1 (laminin B1 subunit 1)   | 0       | 0       | 0      | 1        | 0.999999 |
| A (U74A)      | 92637_at       | 361 PRK1 (6-phosphofructokinase, enzyme)   | 0       | 0       | 0      | 1        | 0.999999 |
| A (U74A)      | 104313_at      | 362 2610020G18Rik (RIKEN cDNA 2610020G18 gene)                                     | 0       | 0       | 0      | 1        | 0.999999 |
| A (U74A)      | 92851_at       | 363 Ctp (ceruloplasmin, copper binding)  | 0       | 0       | 0      | 0.999999 | 1        |
| A (U74A)      | 93351_at       | 364 Hpgd (hydroxyprostaglandin dehydrogenase 15)                                   | 0       | 0       | 0      | 0.999999 | 1        |

12/30

**Fig. 2B**

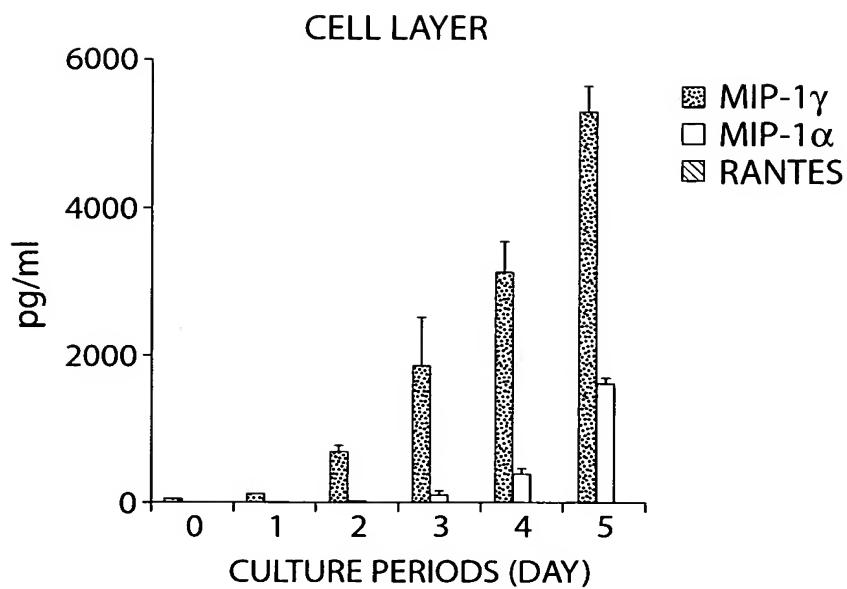


Fig. 3A

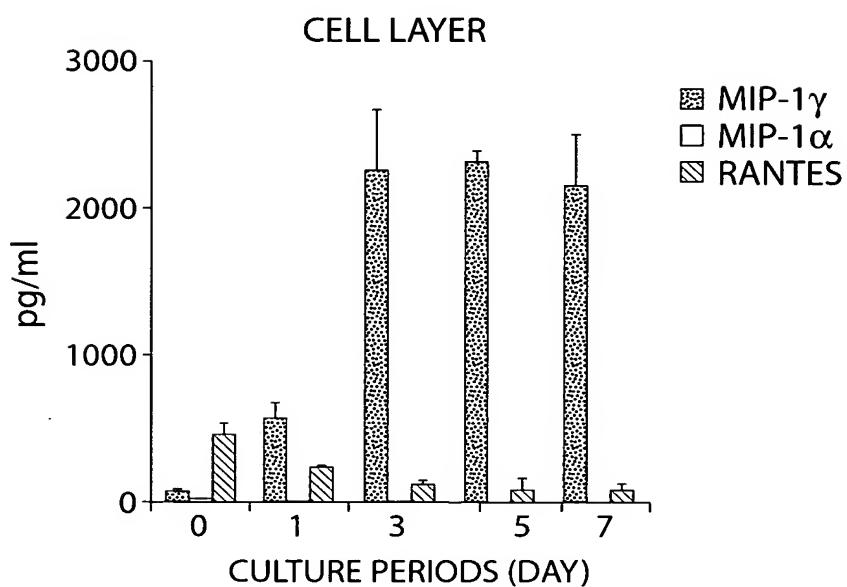


Fig. 3B

14/30

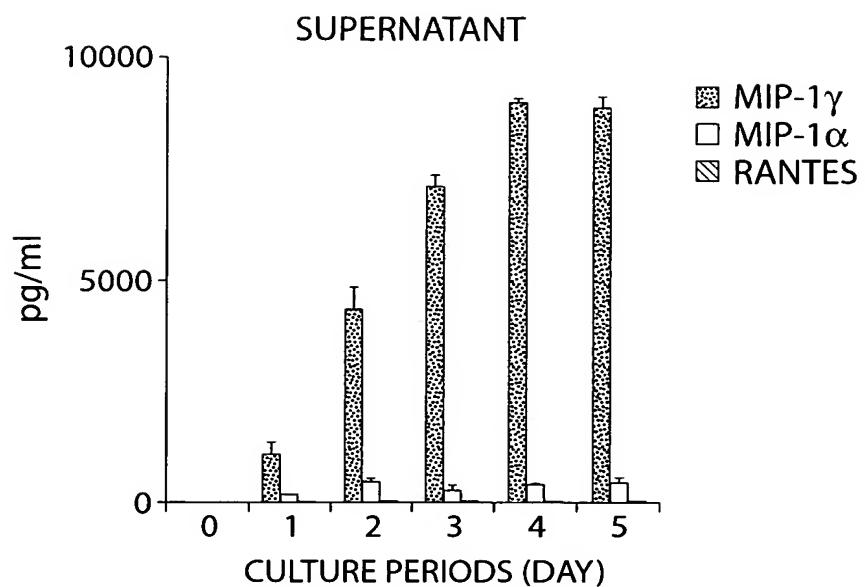


Fig. 3C

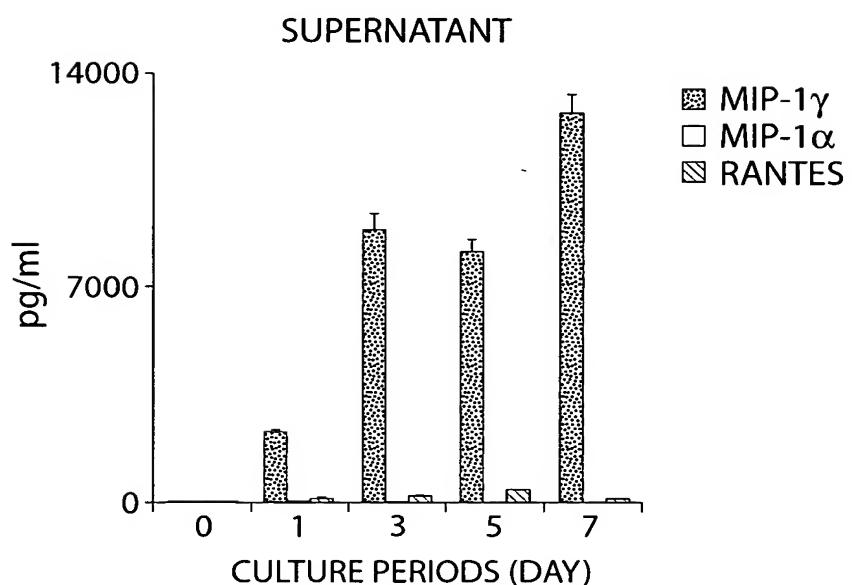


Fig. 3D

15/30

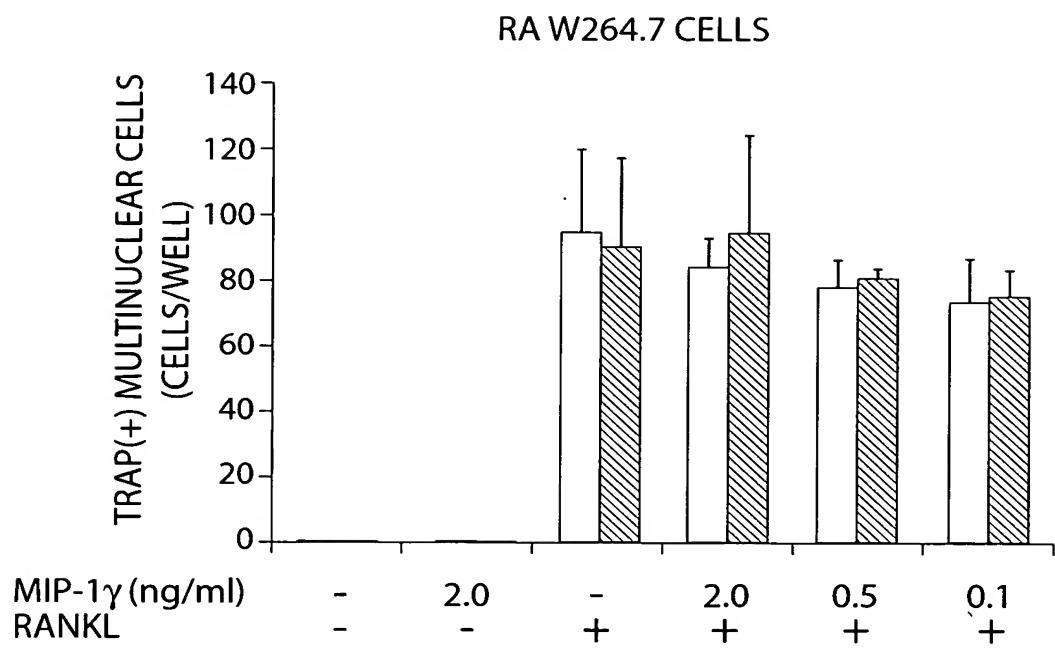


Fig. 4A

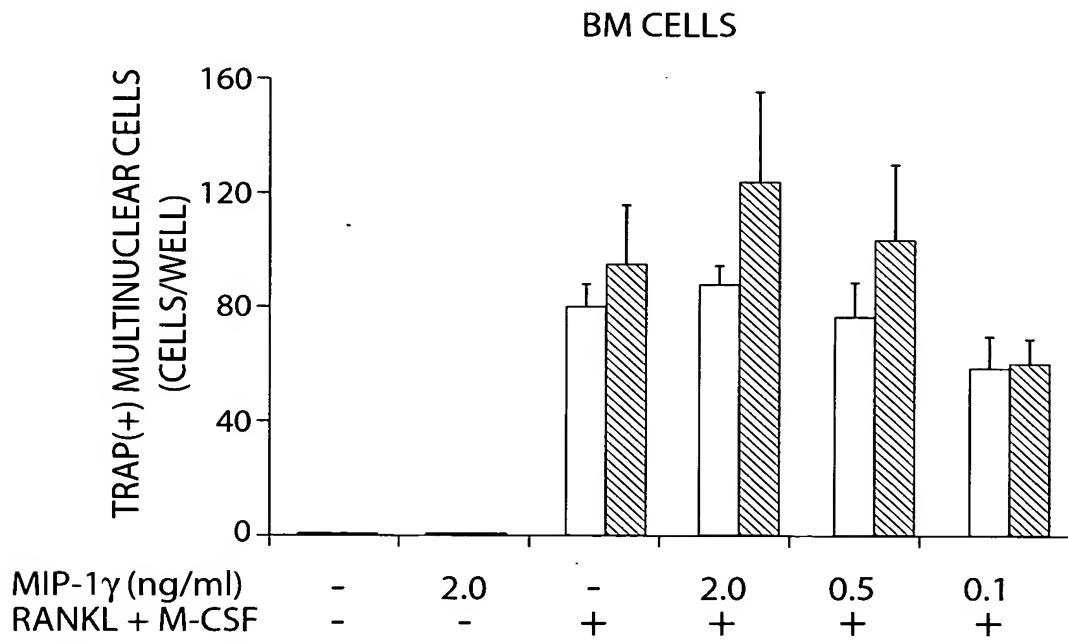


Fig. 4B

16/30  
RA W264.7 CELLS

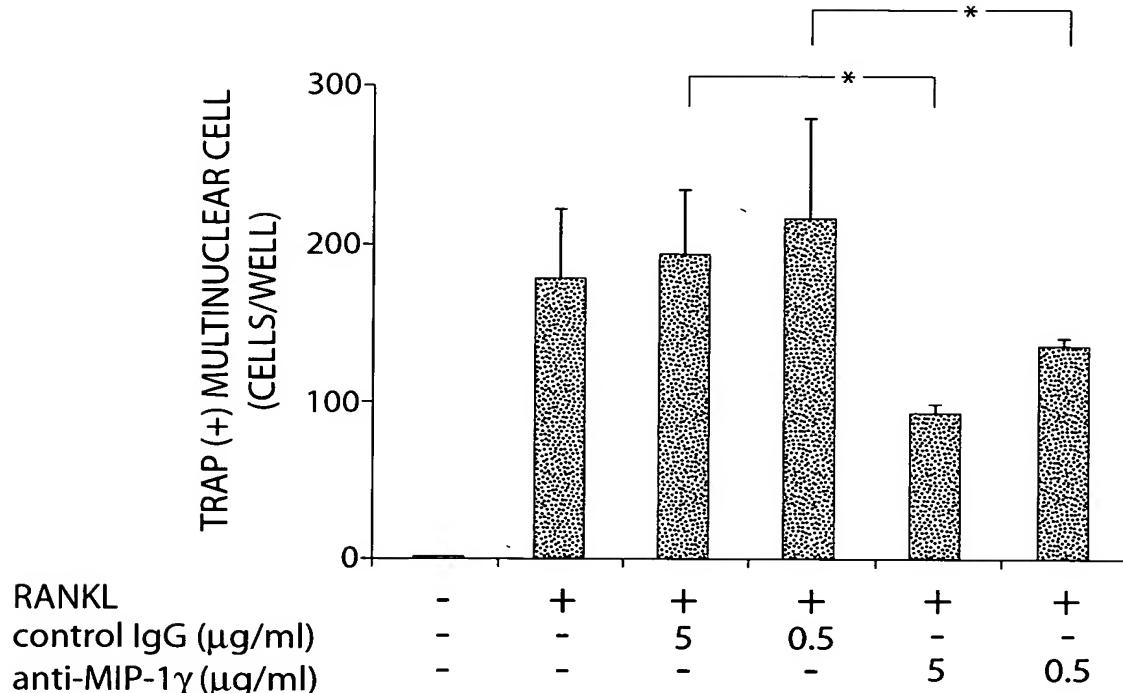


Fig. 5A

BM CELLS

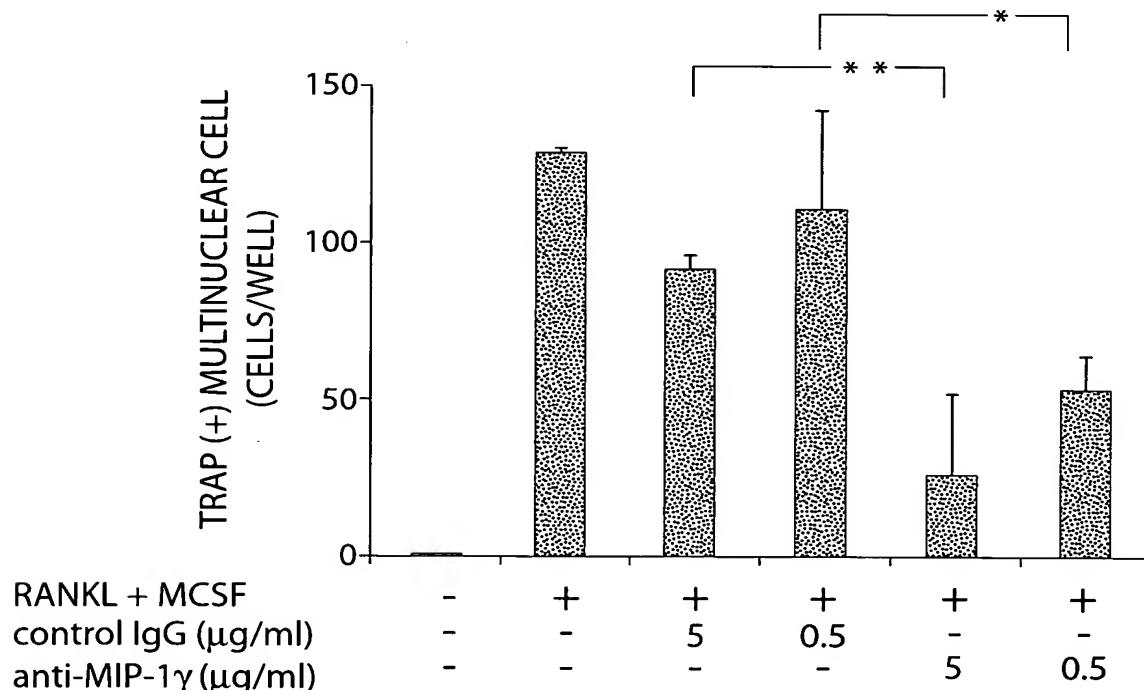
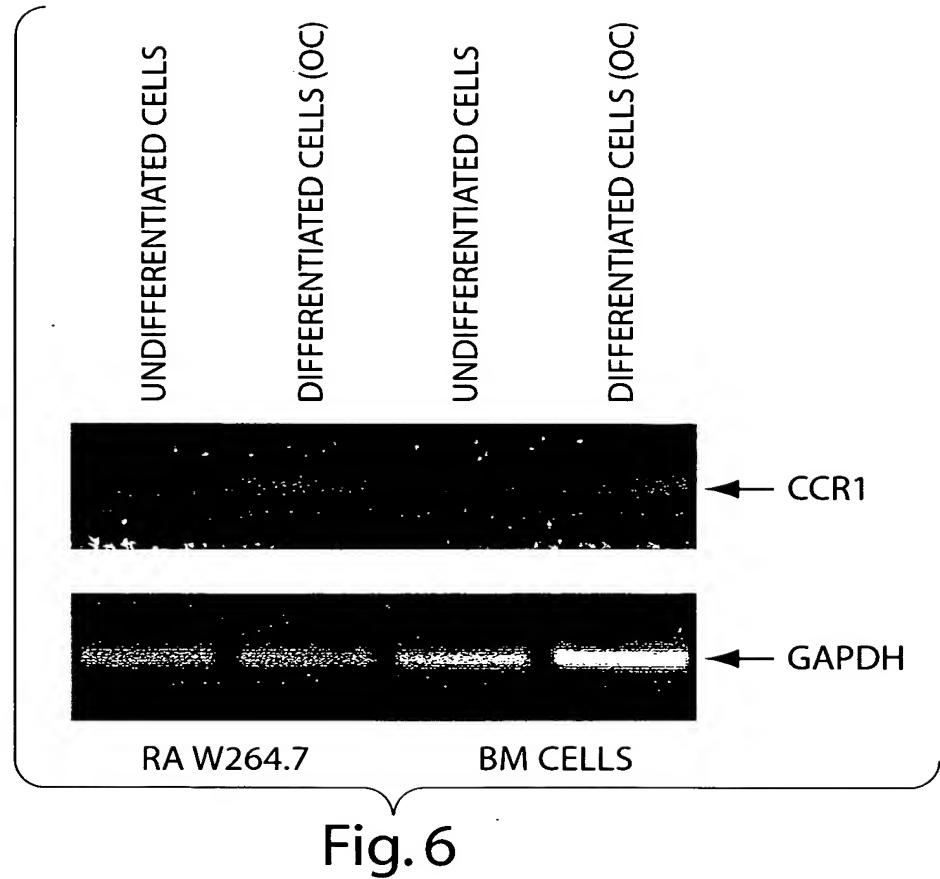


Fig. 5B



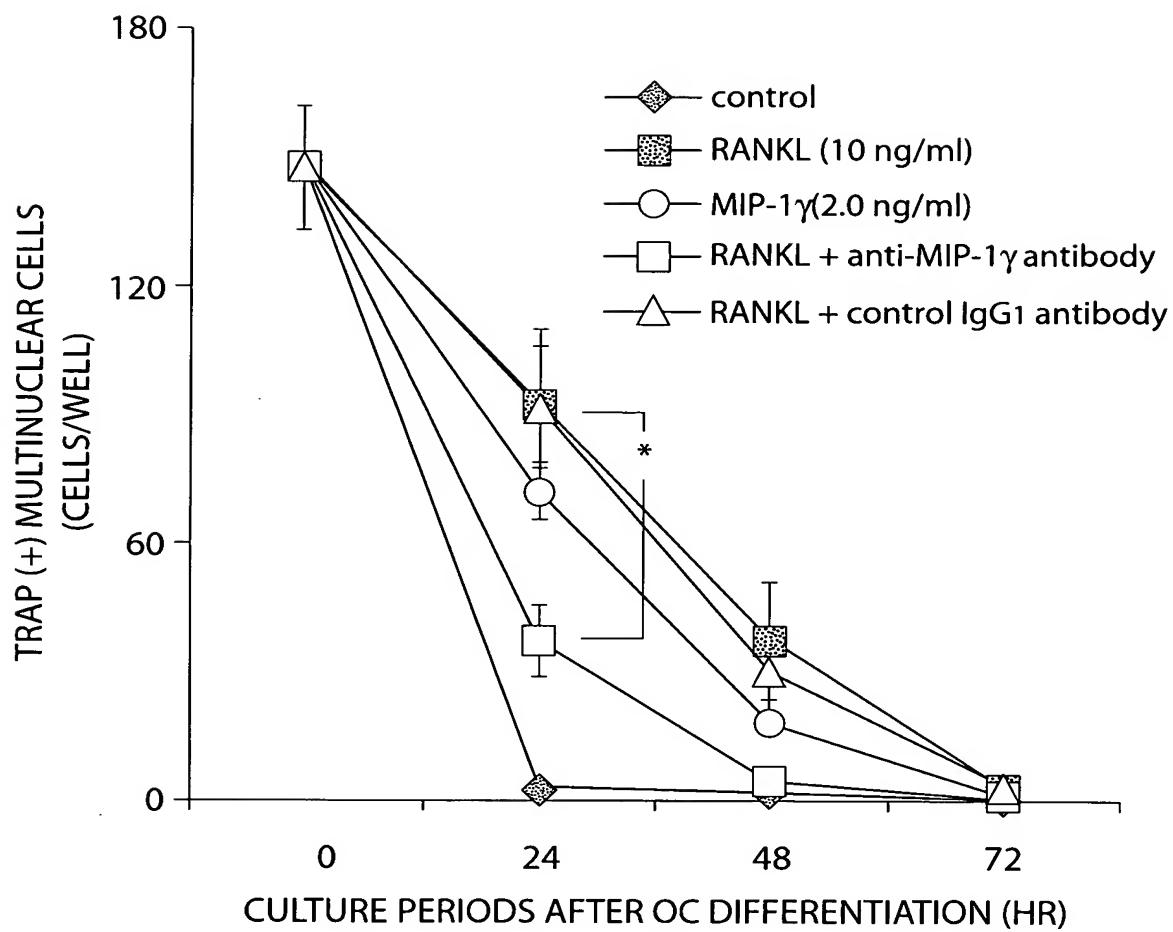
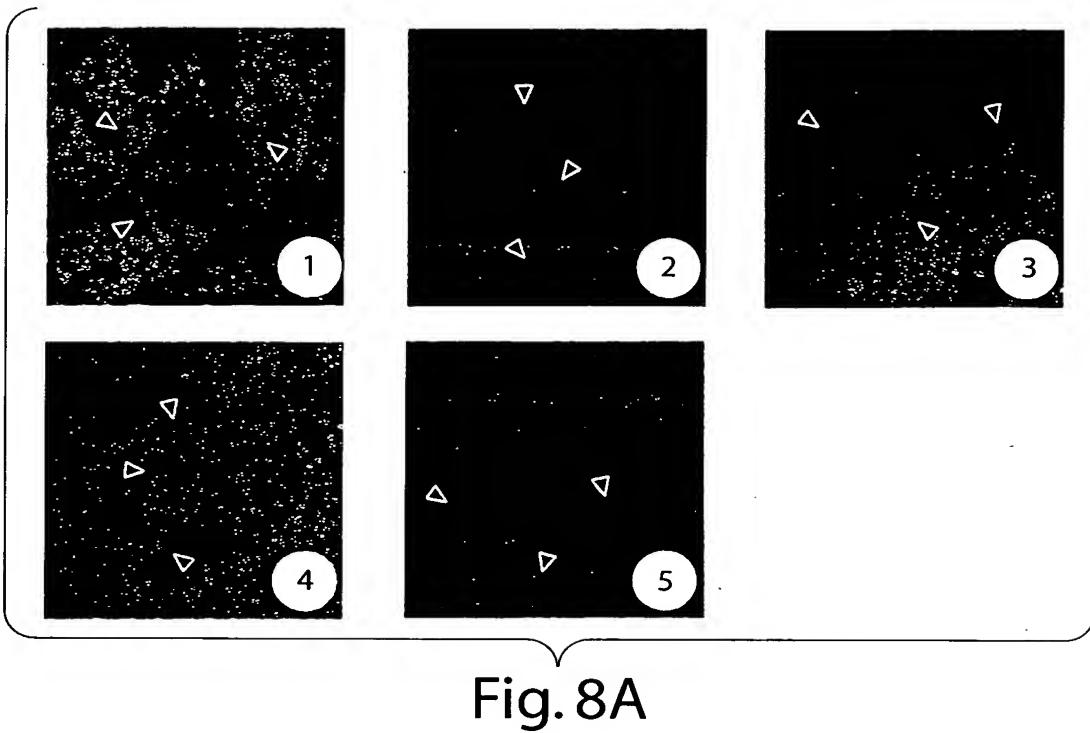


Fig. 7



1 2 3 4 5

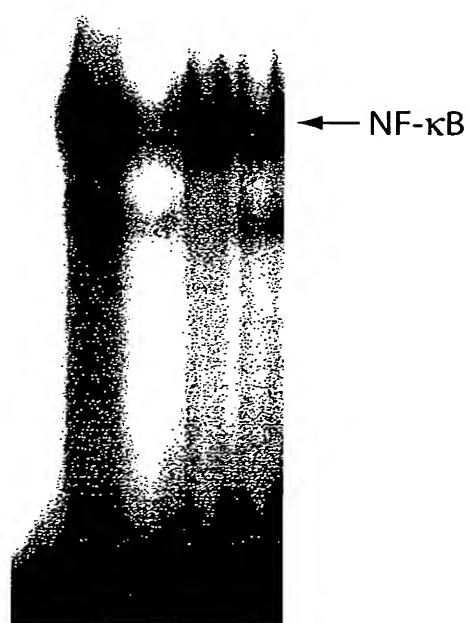


Fig. 8B

20/30

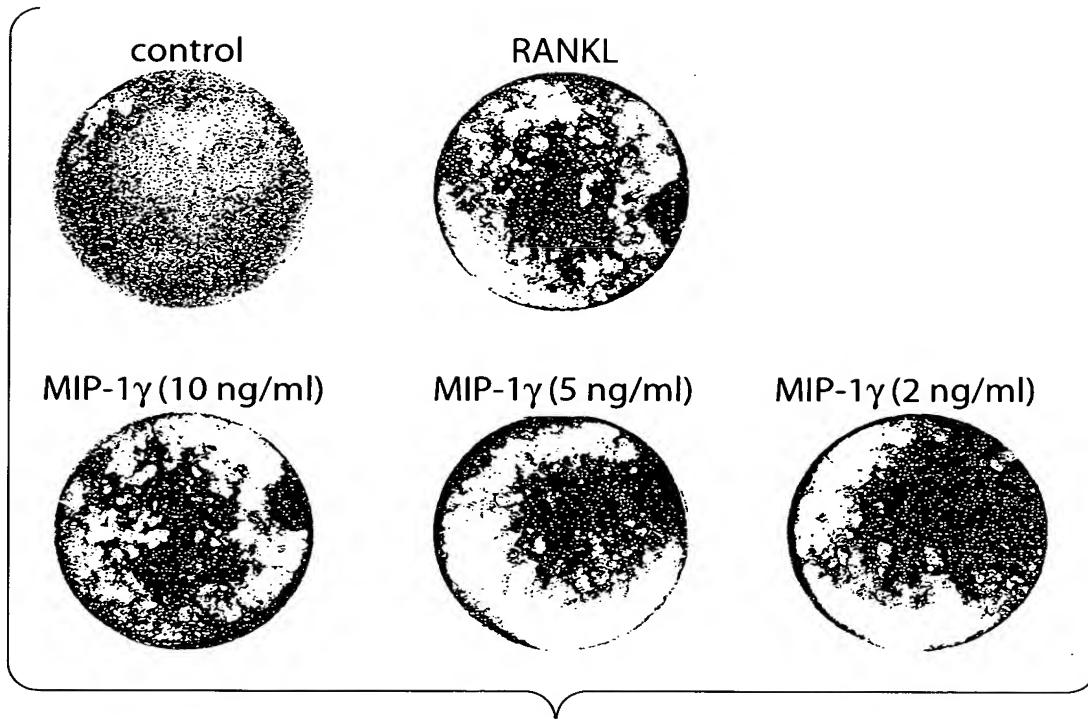


Fig. 9A

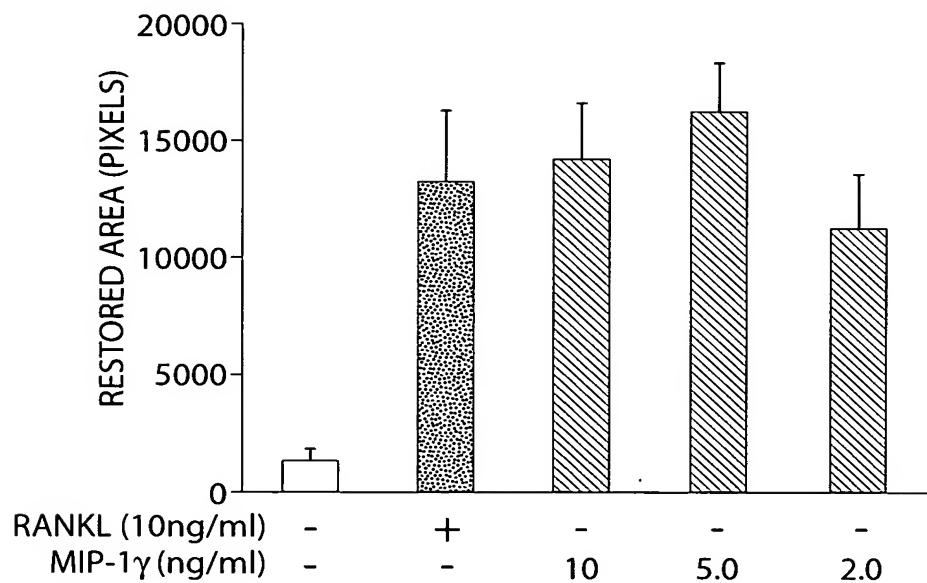


Fig. 9B

21/30

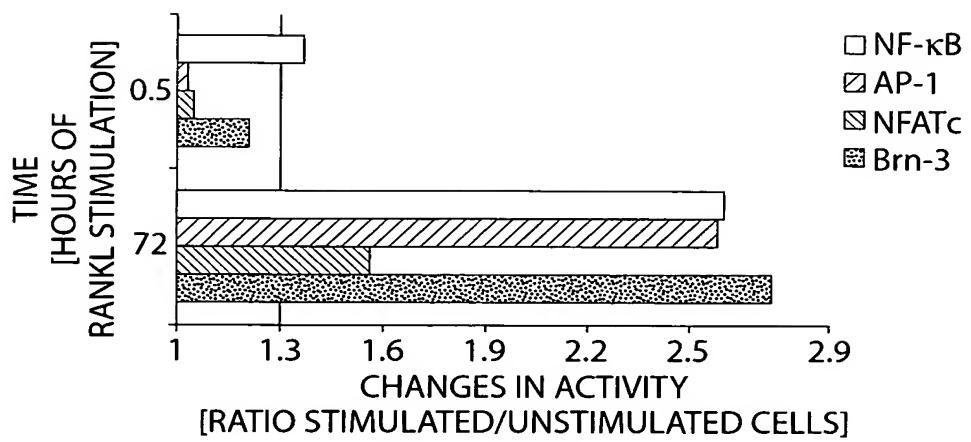


Fig. 10A

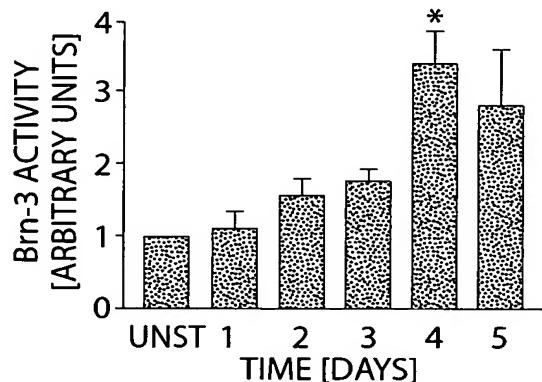


Fig. 10B

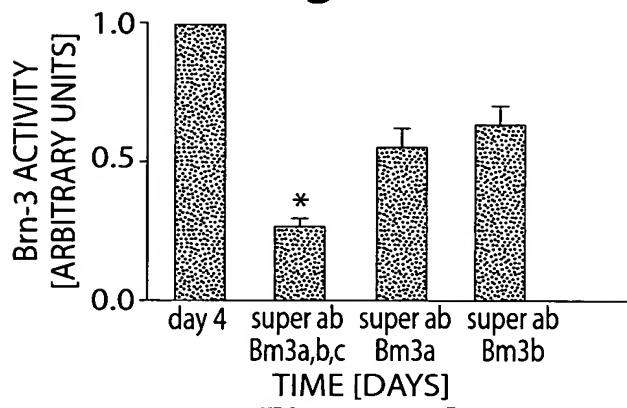


Fig. 10C

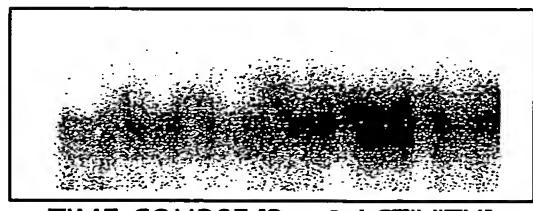


Fig. 10D

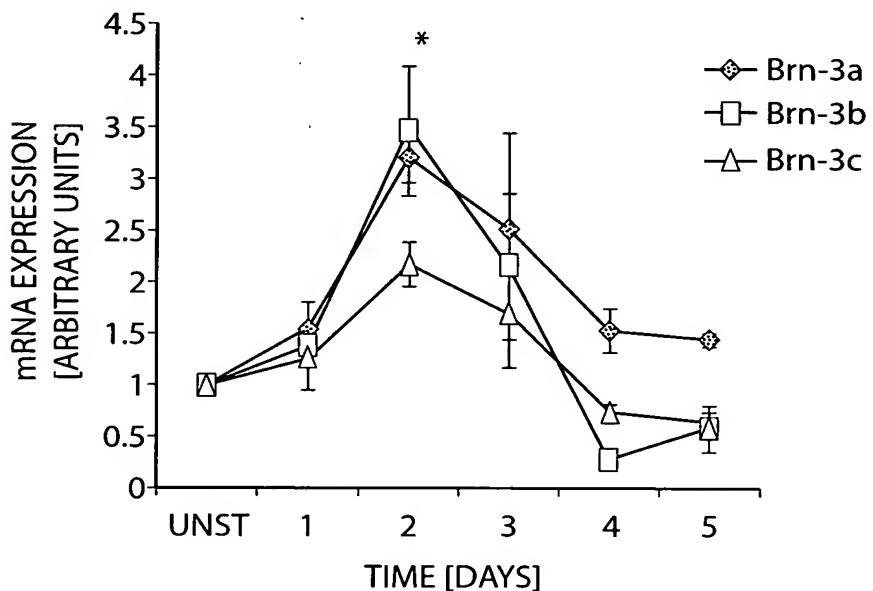
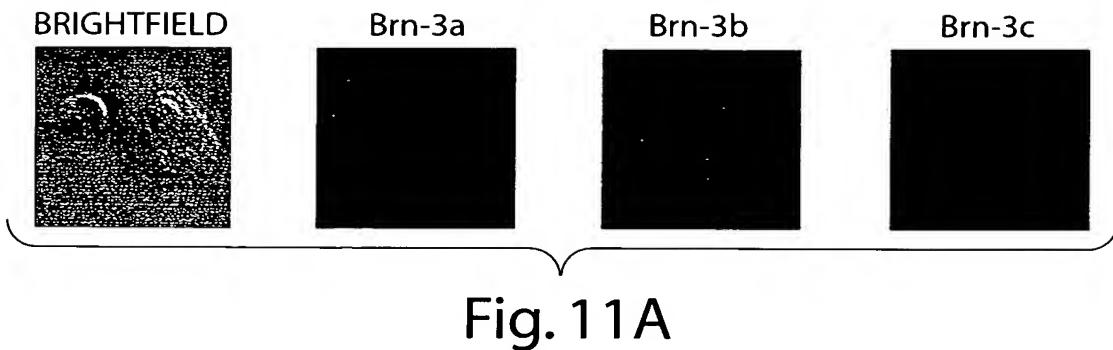


Fig. 11B

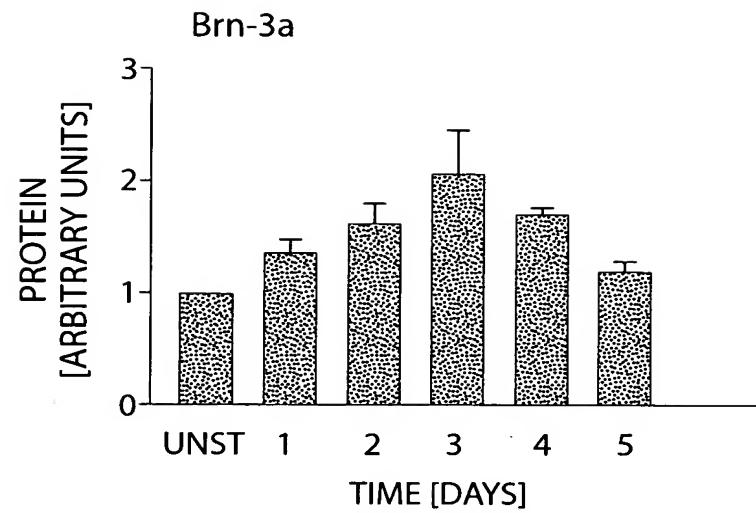


Fig. 11C

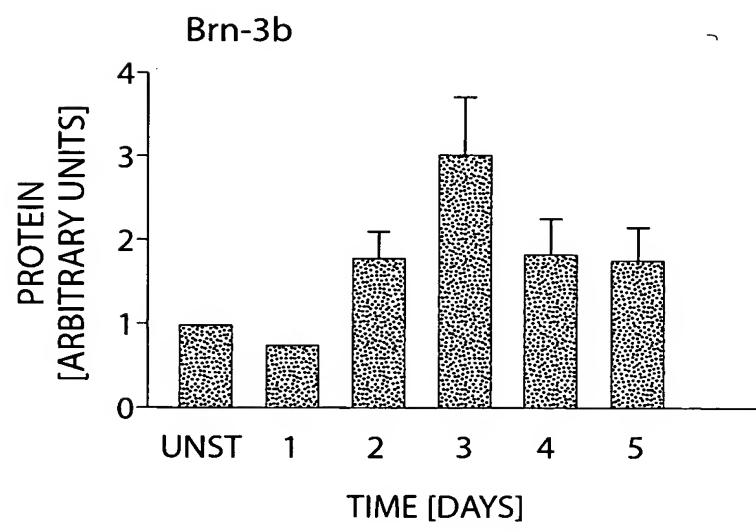
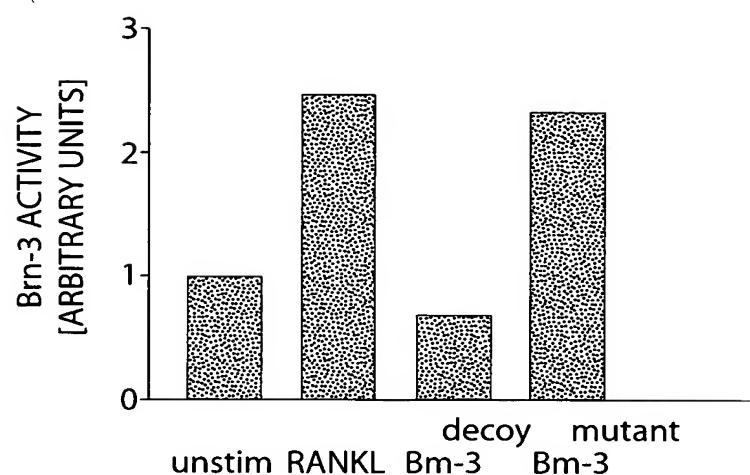
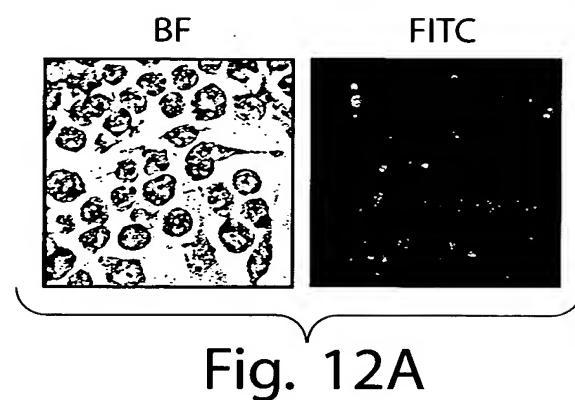


Fig. 11D



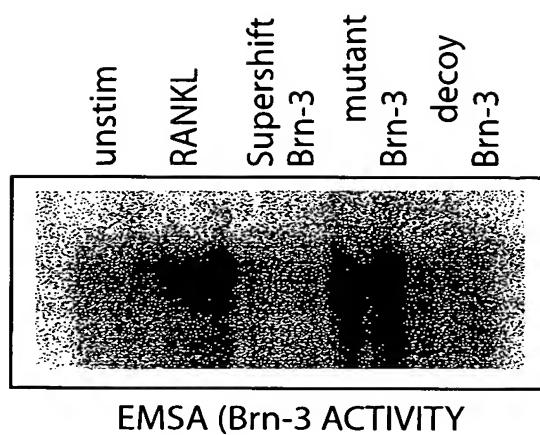


Fig. 12C

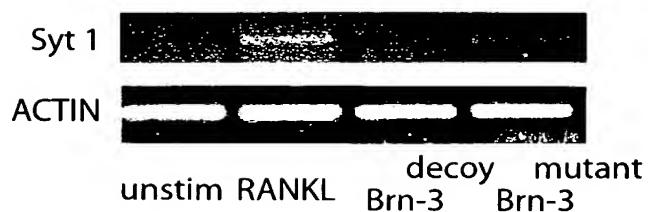


Fig. 12D

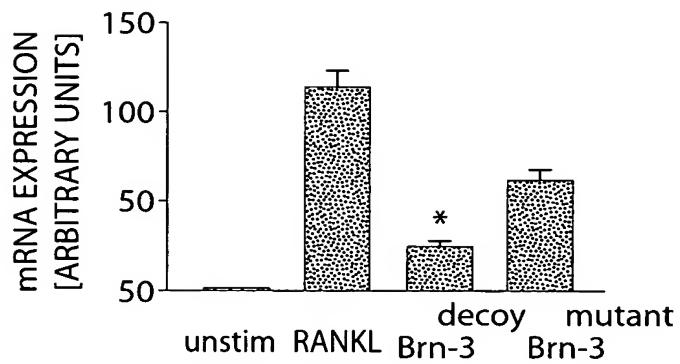


Fig. 12E

26/30

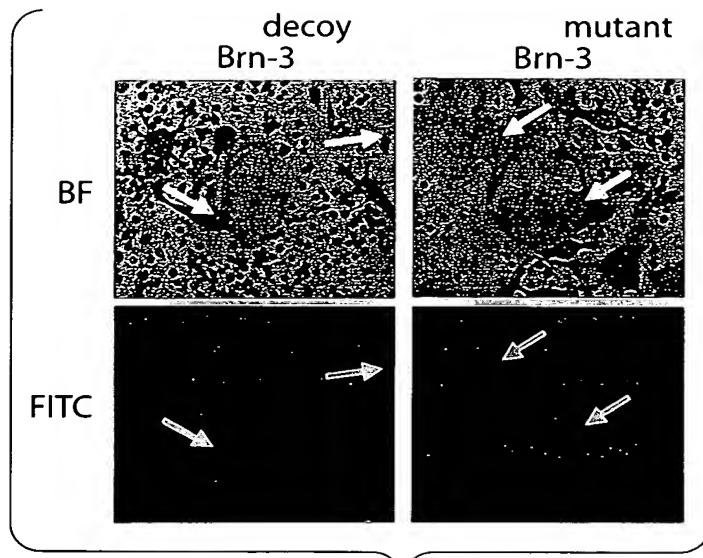


Fig. 13A

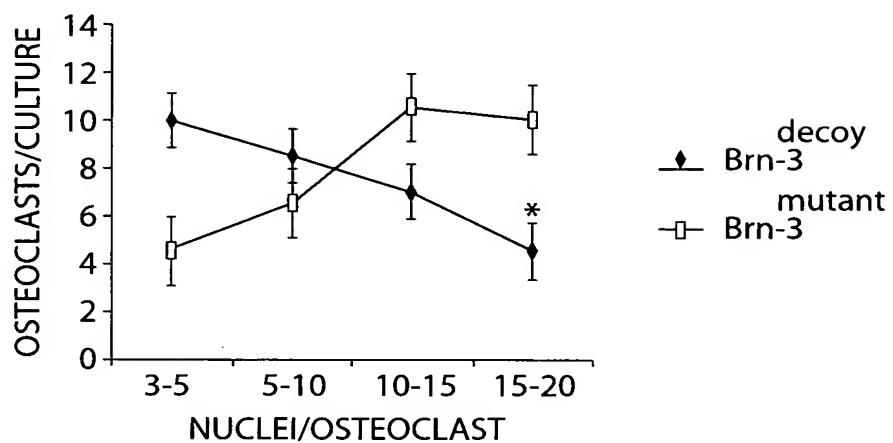


Fig. 13B

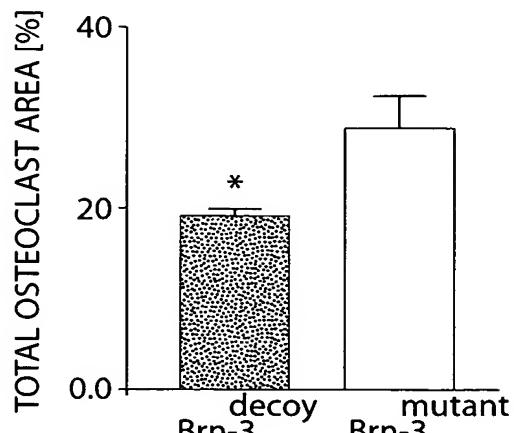
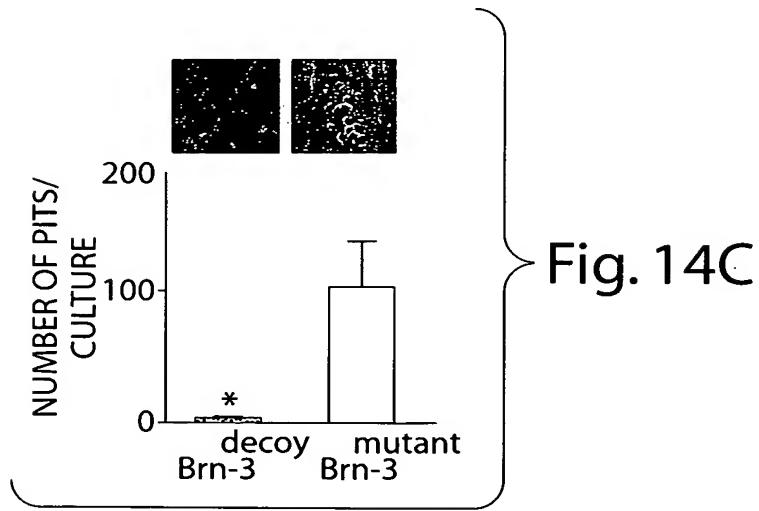
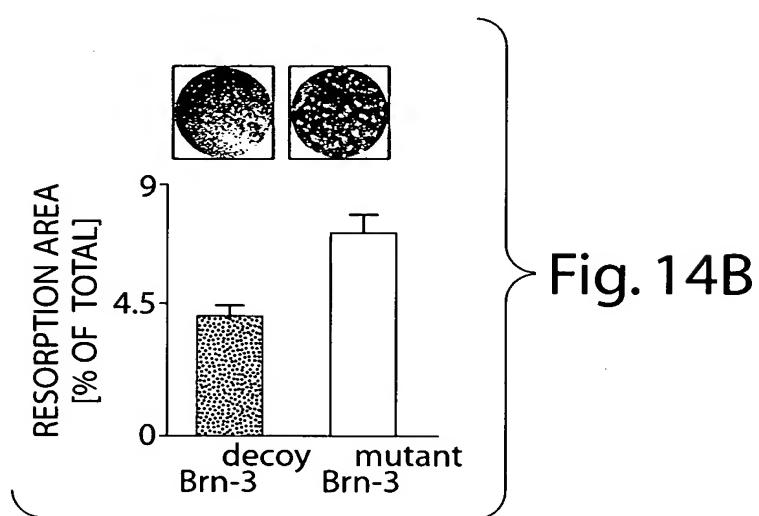
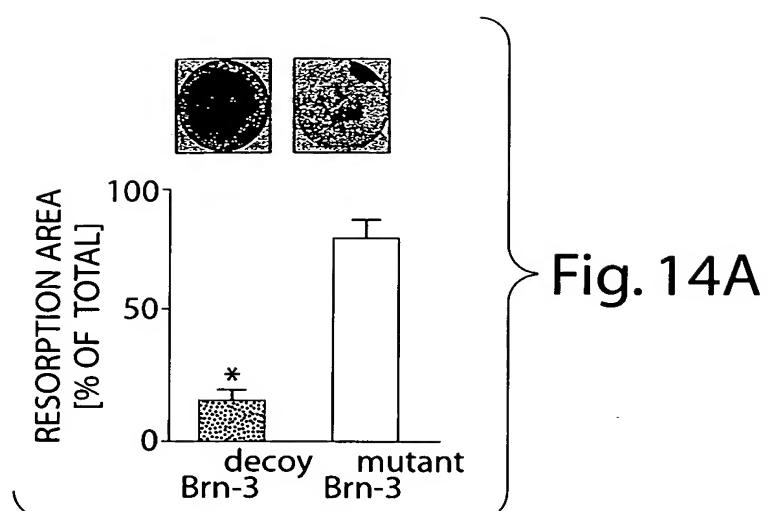


Fig. 13C



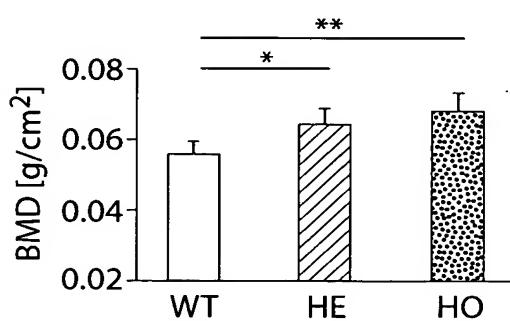
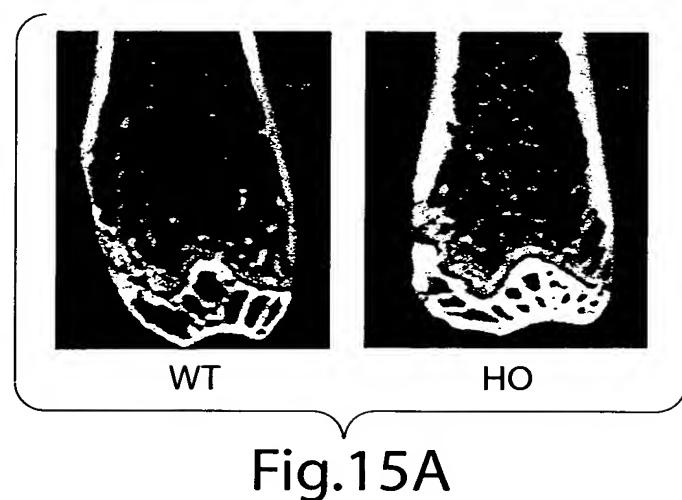


Fig.15B

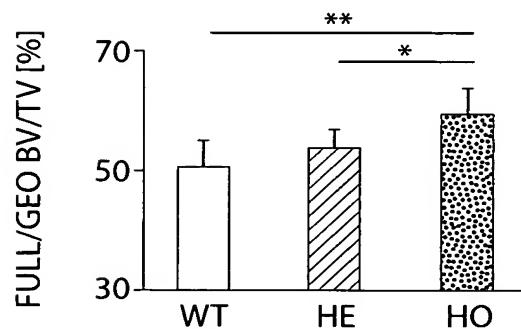


Fig.15C

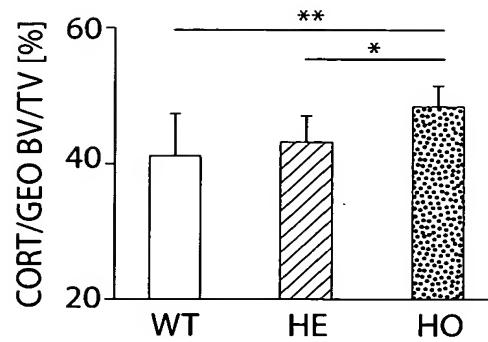


Fig.15D

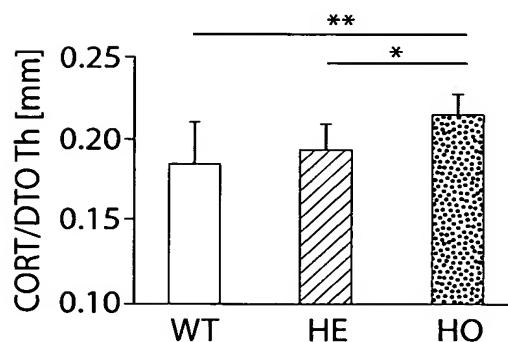


Fig.15E

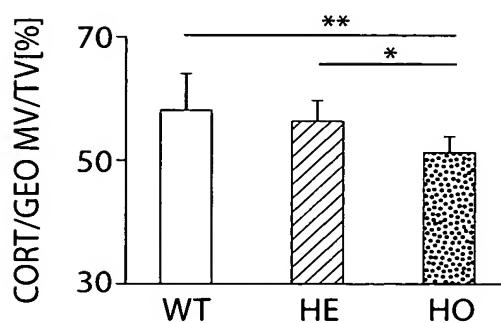


Fig.15F

30/30

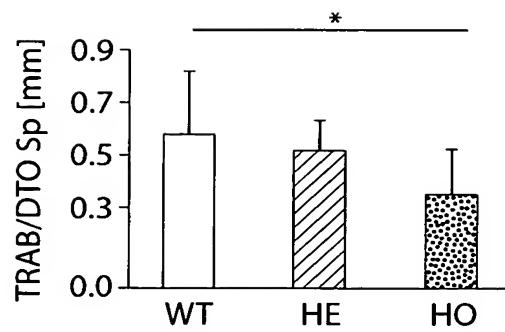


Fig.15G

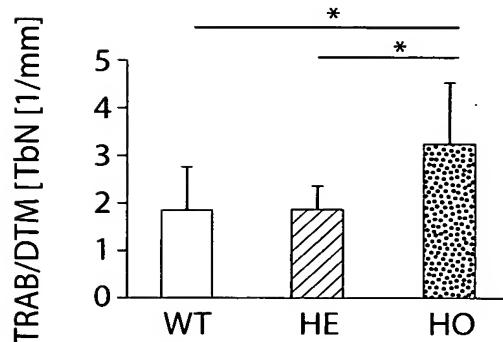


Fig.15H

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